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This paper lists 1656 publications in technical journals and conferences where authors refer to the usage of VPIcomponentMaker and VPItransmissionMaker (or their predecessor products) based on information as of December 31, 2022.

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2022

- [1] Ekta Jarangal and Divya Dhawan and Kamna Kohli and Rupinder Kaur. "Performance enhancement of FSO system under the effect of Scintillation using CWDM". In: AGRIVOLTAICS2021 CONFERENCE: Connecting Agrivoltaics Worldwide, December 2022.
DOI: 10.1063/5.0114042
- [2] Xueyuan Luo and Chenglin Bai and Xinyu Chi and Hengying Xu and Yaxuan Fan and Lishan Yang and Peng Qin and Zhiguo Wang and Xiuhua Lv. "Nonlinear Impairment Compensation Using Transfer Learning-Assisted Convolutional Bidirectional Long Short-Term Memory Neural Network for Coherent Optical Communication Systems". In: Photonics, vol. 9, no. 12, pp. 919, November 2022.
DOI: 10.3390/photonics9120919
- [3] Euan J. Tough and Martyn J. Fice and Guillermo Carpintero and Cyril C. Renaud and Alwyn J. Seeds and Katarzyna Balakier. "InP integrated optical frequency comb generator using an amplified recirculating loop". In: Optics Express, vol. 30, no. 24, pp. 43195, November 2022.
DOI: 10.1364/oe.469942
- [4] Anqi Hu and Xiaoxue Gong and Lei Guo. "Joint Optimization-Encryption Model Based on Auto Encoder Neural Network, Variable-Length Dynamic S-Box and New Stream Encryption". In: International Journal of Bifurcation and Chaos, vol. 32, no. 14, November 2022.
DOI: 10.1142/s0218127422502327
- [5] Ziyuan Zheng and Chuanchuan Yang and Chun Yang and Ziyu Wang. "Energy consumption modeling and analysis for short-reach optical transmissions using irregular LDPC codes". In: Optics Express, vol. 30, no. 24, pp. 43852, November 2022.
DOI: 10.1364/oe.472564
- [6] J. Molina-Luna and R. Gutierrez-Castrejon and D. E. Ceballos-Herrera. "Alternative to Super-PON downstream transmitter using a directly-modulated SOA". In: Optical and Quantum Electronics, vol. 54, no. 12, October 2022.
DOI: 10.1007/s11082-022-04159-9
- [7] P. Lopez-Querol and A. Soria-Gomez and A. Quirce and I. Esquivias and J. M. G. Tijero and A. Perez-Serrano. "Integrated Frequency Shifter based on an Indium Phosphide Generic Platform for Heterodyne Detection Systems". In: Frontiers in Optics + Laser Science 2022, October 2022.
DOI: 10.1364/fio.2022.jw5b.38
- [8] Sarah Masaad and Emmanuel Gooskens and Stijn Sackesyn and Joni Dambre and Peter Bienstman. "Photonic reservoir computing for nonlinear equalization of 64-QAM signals with a Kramers-Kronig receiver". In: Nanophotonics, vol. 0, no. 0, October 2022.
DOI: 10.1515/nanoph-2022-0426
- [9] Hassan Termos and Ali Mansour. "Sampling Parallel SOA-MZIs Configuration for All-Optical Simultaneous Frequency Down-Conversion". In: Photonics, vol. 9, no. 10, pp. 745, October 2022.
DOI: 10.3390/photonics9100745
- [10] Benshan Wang and Thomas Ferreira de Lima and Bhavin J Shastri and Paul R Prucnal and Chaoran Huang. "Multi-Wavelength Photonic Neuromorphic Computing for Intra and Inter-Channel Distortion Compensations in WDM Optical Communication Systems". In: IEEE Journal of Selected Topics in Quantum Electronics, vol. 29, no. 2: Optical Computing, pp. 1-12, October 2022.
DOI: 10.1109/jstqe.2022.3213172
- [11] Huatao Zhu and Zhanqi Liu and Peng Xiang and Shuwen Chen and Feiyu Li and Xiangming Xu. "Quantum noise ciphered optical stealth communication based on equivalent spectral encoding". In: Optics Express, vol. 30, no. 21, pp. 38128, September 2022.

DOI: 10.1364/oe.471977

- [12] Tao Yang and Kaixuan Li and Zhengyu Liu and Xue Wang and Sheping Shi and Liqian Wang and Xue Chen. "Optical Labels Enabled Optical Performance Monitoring in WDM Systems". In: *Photonics*, vol. 9, no. 9, pp. 647, September 2022.
DOI: 10.3390/photonics9090647
- [13] Kun Wu and Hongxiang Wang and Yuefeng Ji. "Channel characteristics estimation based on a secure optical transmission system with deep neural networks". In: *Optics Express*, vol. 30, no. 18, pp. 32391, August 2022.
DOI: 10.1364/oe.464257
- [14] Ramon Muraoka Espiritu and Arturo Arvizu and Juan de Dios Sanchez Lopez and Francisco Javier Mendieta Jimenez and Joel Santos Aguilar. "Generation of triangular waveform radiofrequency signals based on photonic filtering using a broad-spectrum source". In: *Revista Mexicana de Fisica*, vol. 68, no. 5 Sep-Oct, August 2022.
DOI: 10.31349/revmexfis.68.050901
- [15] Hassan Termos and Ali Mansour. "Frequency Alteration Built on an Electro-Optical Sampling SOA-MZI Using a Differential Modulation Schema". In: *Optics*, vol. 3, no. 3, pp. 225–233, July 2022.
DOI: 10.3390/opt3030022
- [16] Angelina Totovic and Christos Pappas and Manos Kirtas and Apostolos Tsakyridis and George Giamougiannis and Nikolaos Passalis and Miltiadis Moralis-Pegios and Anastasios Tefas and Nikos Pleros. "WDM equipped universal linear optics for programmable neuromorphic photonic processors". In: *Neuromorphic Computing and Engineering*, vol. 2, no. 2, pp. 024010, June 2022.
DOI: 10.1088/2634-4386/ac724d
- [17] Xiaoran Xie and Xiupu Zhang. "Pre-filtered and post-filtered 1-bit delta sigma modulator for fronthaul downlinks". In: *Optics Communications*, vol. 510, pp. 127908, May 2022.
DOI: 10.1016/j.optcom.2022.127908
- [18] Longquan Dai and Chuanming Huang and Hongyu Li and Mengfan Cheng and Qi Yang and Ming Tang and Deming Liu and Lei Deng. "Simultaneously precise frequency response and IQ skew calibration in a self-homodyne coherent optical transmission system". In: *Optics Express*, vol. 30, no. 12, pp. 20894, May 2022.
DOI: 10.1364/oe.461139
- [19] Priyanka Singh and Akshita Gupta and Vivek Ashok Bohara and Anand Srivastava. "Cost Effective Hybrid FSO-Wireless Architecture for Broadband Access Network". In: *2022 International Conference on Optical Network Design and Modeling (ONDM)*, May 2022.
DOI: 10.23919/ondm54585.2022.9782861
- [20] Hamza Saadaoui and Alexandre Bacou and Yoann Rebiere and Bruno Fracasso and Michel Morvan. "Broadband optical network design for the future aircraft cabin". In: *Optics Continuum*, vol. 1, no. 4, pp. 719, April 2022.
DOI: 10.1364/optcon.447053
- [21] Hamza Saadaoui and Alexandre Bacou and Yoann Rebiere and Bruno Fracasso and Michel Morvan. "PON WDM network architecture for the future aircraft cabin". In: *Metro and Data Center Optical Networks and Short-Reach Links V*, March 2022.
DOI: 10.1117/12.2605958
- [22] Baokun Li and Chenglin Bai and Hengying Xu and Lishan Yang and Weibin Sun and Xinkuo Yu and Ruqing Zhao and Tanglei Zhou and Peiyun Ge and Xiuhua Lv and Xueyuan Luo. "A low complexity nonlinearity impairment compensation scheme assisted by label propagation algorithm". In: *Optics Communications*, vol. 506, pp. 127547, March 2022.
DOI: 10.1016/j.optcom.2021.127547

- [23] Weile Zhai and Aijun Wen and Yongsheng Gao and Dongjuan Shan and Yangyu Fan. "An Ultraefficient Broadband Photonic Channelizer Based on Polarization-Division Multiplexing and Integrated Dual-Polarization Coherent Detection Receiver". In: IEEE Transactions on Microwave Theory and Techniques, vol. 70, no. 3, pp. 1821–1831, March 2022.
DOI: 10.1109/tmtt.2021.3127877
- [24] Zhuili Huang and Ye Tian and Yufei Liu and Huaijian Luo and Xiaojing Long and Changyuan Yu. "Optical performance monitoring using SOI-based spectral analysis". In: Optics Express, vol. 30, no. 4, pp. 6397, February 2022.
DOI: 10.1364/oe.451269
- [25] Hassan Termos and Ali Mansour and Abbass Nasser. "Simultaneous Up-Conversion Based on a Co- & Counter-Directions SOA-MZI Sampling Mixer with Standard & Differential Modulation Modes". In: Photonics, vol. 9, no. 2, pp. 109, February 2022.
DOI: 10.3390/photonics9020109
- [26] Longquan Dai and Di Li and Chuanming Huang and Hongyu Li and Yu Yang and Haiping Song and Mengfan Cheng and Qi Yang and Ming Tang and Deming Liu and Lei Deng. "Experimental Demonstration of Simultaneously Precise Tx and Rx Skew Calibration for Coherent Optical Transceiver". In: Journal of Lightwave Technology, vol. 40, no. 4, pp. 1043–1054, February 2022.
DOI: 10.1109/jlt.2021.3125094
- [27] Hassan Termos and Ali Nansour. "Real and Simulated QPSK Up-Converted Signals by a Sampling Method Using a Cascaded MZMs Link". In: Photonics, vol. 9, no. 1, pp. 34, January 2022.
DOI: 10.3390/photonics9010034
- [28] Ali Abdulsattar Hussein. "Adaptive opto-electromechanical silicon-on-insulator increased bandwidth accelerometer". In: SN Applied Sciences, vol. 4, no. 2, January 2022.
DOI: 10.1007/s42452-021-04922-9

2021

- [29] Lishan Yang and Hengying Xu and Chenglin Bai and Xinkuo Yu and Kangyoung You and Weibin Sun and Xiaoguang Zhang and Cailong Liu. "Low-complexity modulation format identification scheme via graph-theory in digital coherent optical receivers". In: *Optics Communications*, vol. 501, pp. 127380, December 2021.
DOI: 10.1016/j.optcom.2021.127380
- [30] Omaro Fawzi Abdelhamid Gonem and Roger Philip Giddings and Jianming Tang. "Timing Jitter Analysis and Mitigation in Hybrid OFDM-DFMA PONs". In: *IEEE Photonics Journal*, vol. 13, no. 6, pp. 1–13, December 2021.
DOI: 10.1109/jphot.2021.3121168
- [31] Yan Xu and Asad Saleem. "Investigation of stimulated Raman scattering effect on designing of NG-EPON systems". In: *Optical Engineering*, vol. 60, no. 12, December 2021.
DOI: 10.1117/1.oe.60.12.126101
- [32] Hong-Sing Lee and Chun-Liang Yang and Chien-Hsiang Chou. "Protection Scheme for a Wavelength-Division-Multiplexed Passive Optical Network Based on Reconfigurable Optical Amplifiers". In: *Applied Sciences*, vol. 12, no. 1, pp. 365, December 2021.
DOI: 10.3390/app12010365
- [33] Bo Chen and Yangyu Fan and Ting Liu and Yongsheng Gao and Xiaoqing Xue and Yu Liu. "Broadband photonic RF channelizer with 66 channels based on acousto-optic frequency shifter". In: *Optical Engineering*, vol. 60, no. 12, December 2021.
DOI: 10.1117/1.oe.60.12.126102
- [34] Yan Xu and Peihua Yu and Nan Ye and Qianwu Zhang and Yingxiong Song. "Simulation investigation of XPM and SRS effect on upgraded Super-PON systems". In: *Optical Fiber Technology*, vol. 67, pp. 102727, December 2021.
DOI: 10.1016/j.yofte.2021.102727
- [35] Manuel Reza and Giovanni Serafino and Tobias Otto and Ahmad Mohammad and Hakimeh Mohammadhosseini and Leili Shiramin and Francesco Floris and Matthias Kolb and Dave Bail and Simone Gabrielli and Chris Roeloffzen and Paul van Dijk and Amin Abbasi and Bart Desoete and Paolo Ghelfi. "Design and Performance Estimation of a Photonic Integrated Beamforming Receiver for Scan-on-Receive Synthetic Aperture Radar". In: *Journal of Lightwave Technology*, vol. 39, no. 24, pp. 7588–7599, December 2021.
DOI: 10.1109/jlt.2021.3119225
- [36] Javier Pérez Santacruz and Umar Farooq and Kebede Tesema Atra and Simon Rommel and Antonio Jurado-Navas and Idelfonso Tafur Monroy and Amalia Miliou and Giancarlo Cerulo and Jean-Guy Provost and Karim Mekhazni. "Modulation and Equalization Techniques for mmWave ARoF". In: *Enabling 6G Mobile Networks*, pp. 259–292, November 2021.
DOI: 10.1007/978-3-030-74648-3_8
- [37] Jiahao Huo and Mingwei Sun and Xian Zhou and Wei Huangfu and Jinhui Yuan and Huansheng Ning and Keping Long. "C band 112 Gb/s PAM4 signal transmission over 320 km with a quasi-linear double-side electro-absorption modulated laser (DS-EML)". In: *Optical Fiber Technology*, vol. 61, pp. 102407, November 2021.
DOI: 10.1016/j.yofte.2020.102407
- [38] Hassan Termos and Ali Mansour and Abbass Nasser. "Repetition rate performance for frequency mixing of four simultaneous QPSK signals based on a SOA-MZI photonic sampling mixer". In: *Optical Engineering*, vol. 60, no. 11, November 2021.
DOI: 10.1117/1.oe.60.11.116104

- [39] Ruqing Zhao and Weibin Sun and Hengying Xu and Chenglin Bai and Xue Tang and Zhiguo Wang and Lishan Yang and Lingguo Cao and Yanfeng Bi and Xinkuo Yu and Wenjing Fang and Baokun Li and Tanglei Zhou and Peiyun Ge. "Blind modulation format identification based on improved PSO clustering in a 2D Stokes plane". In: *Applied Optics*, vol. 60, no. 31, pp. 9933, November 2021.
DOI: 10.1364/ao.439749
- [40] Priyadharshini Rajasekaran and Geetha Ganesan and Meenakshi Murugappan. "Performance analysis of hybrid Fi-Wi network employing OCDMA based NG-PON". In: *Frequenz*, vol. 76, no. 1-2, pp. 97–108, September 2021.
DOI: 10.1515/freq-2021-0053
- [41] Ryo Igarashi and Kazutaka Hara and Ryo Koma and Masamichi Fujiwara and Takuya Kanai and Jun-ichi Kani and Tomoaki Yoshida. "Network Design for Bus-Type Optical Access Using Distributed Raman Amplification With Asymmetric Power Splitter". In: *Journal of Lightwave Technology*, pp. 1–1, September 2021.
DOI: 10.1109/jlt.2021.3106061
- [42] Yan Xu and Peihua Yu and Nan Ye and Yingxiong Song. "Mitigation of the XPM in 5G fronthaul wavelengths by using orthogonal polarization method". In: *Optics Communications*, vol. 494, pp. 127046, September 2021.
DOI: 10.1016/j.optcom.2021.127046
- [43] Yating Xiang and Yizhao Chen and Junda Chen and Li Wang and Ting Jiang and Ming Tang. "Phase Retrieval of Complex OFDM Signal by Solving Temporal Transport-of-Intensity Equation". In: *IEEE Photonics Technology Letters*, vol. 33, no. 18, pp. 1006–1009, September 2021.
DOI: 10.1109/1pt.2021.3085403
- [44] Muhammad Usman Hadi and Kiran Khurshid and Abdul Basit. "Pre-BPF based Sigma Delta Radio over Fiber for 5G Sub-6 GHz Fronthauls". In: *2021 International Conference on Communication Technologies (ComTech)*, September 2021.
DOI: 10.1109/comtech52583.2021.9616760
- [45] Hassan Termos and Ali Mansour and Abbass Nasser. "Simultaneous up- and down-frequency mixing based on a cascaded SOA-MZIs link". In: *Applied Optics*, vol. 60, no. 27, pp. 8336, September 2021.
DOI: 10.1364/ao.432179
- [46] Georgios Charalambous and Nicholas Madamopoulos and Benjamin B Dingel and Stavros Iezekiel. "Integrated Photonic Linear Frequency Discriminator Filter for 5G Phase-Modulated Microwave Photonic Links". In: *Journal of Lightwave Technology*, pp. 1–1, September 2021.
DOI: 10.1109/jlt.2021.3105242
- [47] Wei Wang and Dongdong Zou and Xiaowu Wang and Zibin Li and Xingwen Yi and Zhaohui Li and Fan Li. "100 Gbit/s/lambda DMT-PON System Based on Intensity Modulation and Heterodyne Coherent Detection". In: *IEEE Photonics Technology Letters*, vol. 33, no. 18, pp. 1014–1017, September 2021.
DOI: 10.1109/1pt.2021.3079982
- [48] Sanjib Sarkar and Devasena Inupakutika and Mandrita Banerjee and Mehdi Tarhani and Mehdi Shadaram. "Machine Learning Methods for Discriminating Strain and Temperature Effects on FBG-Based Sensors". In: *IEEE Photonics Technology Letters*, vol. 33, no. 16, pp. 876–879, August 2021.
DOI: 10.1109/1pt.2021.3055216
- [49] Hassan Termos and Ali Mansour. "OFDM signal down frequency conversion based on a SOA-MZI sampling mixer using differential modulation and switching architectures". In: *Optik*, vol. 245, pp. 167761, August 2021.
DOI: 10.1016/j.ijleo.2021.167761
- [50] Ankush Mahajan and Konstantinos Christodoulopoulos and Ricardo Martinez and Raul Munoz and Salvatore Spadaro. "Impact of Multi-Vendor Transponders Performance on Design Margin in Optical Networks". In: *IEEE Access*, vol. 9, pp. 118927–118940, August 2021.
DOI: 10.1109/access.2021.3107296

- [51] Siti Sulikhah and San Liang Lee and Hen Wai Tsao. "Demonstration of Photon-Photon Resonance Improved Direct Modulation Bandwidth of Partially Corrugated Grating with Passive Feedback". In: 26th Optoelectronics and Communications Conference, July 2021.
DOI: 10.1364/oecc.2021.w2f.3
- [52] Peishan Zhang and Qifeng Yan and Xuezhi Hong. "Probability-Aware Stokes Space Blind Polarization Demultiplexing for Probabilistically Shaped Signals". In: Journal of Lightwave Technology, pp. 1–1, July 2021.
DOI: 10.1109/jlt.2021.3098449
- [53] Junda Chen and Yizhao Chen and Yuxiang Duan and Xuefeng Wang and Li Wang and Tianhao Tong and Yating Xiang and Can Zhao and Deming Liu and Ming Tang. "Geometric shaping optimization of 64-APSK constellation in discrete nonlinear frequency division multiplexing systems". In: Optics Letters, vol. 46, no. 14, pp. 3368, July 2021.
DOI: 10.1364/ol.430391
- [54] Omaro Fawzi Abdelhamid Gonem and Roger Philip Giddings and Jianming Tang. "DSP-based Reduction of the Impact of White ADC Timing Jitter on Hybrid OFDM-DFMA PONs". In: OSA Advanced Photonics Congress 2021, July 2021.
DOI: 10.1364/sppcom.2021.spth1d.2
- [55] Romulo de Paula and Lucas Marim and Rafael Penchel and Yessica Rumaldo Bustamante and Marcelo Francisco Luis Abbade and Grethell Georgina Perez and Ivan Aldaya. "Mitigation of Nonlinear Phase Noise in Single-channel Coherent 16-QAM Systems Employing Logistic Regression". In: na, June 2021.
DOI: 10.21203/rs.3.rs-499944/v1
- [56] Dmitry Khomchenko and Sai Kireet Patri and Achim Autenrieth and Carmen Mas-Machuca and Andre Richter. "Transmission-Aware Bandwidth Variable Transceiver Allocation in DWDM Optical Networks". In: 2021 International Conference on Optical Network Design and Modeling (ONDM), June 2021.
DOI: 10.23919/ondm51796.2021.9492501
- [57] Zhe Fu and Junjie Zhang and Ziheng Zhang and Songnian Fu and Yuwen Qin and Lei Shen and Mengfan Cheng and Qi Yang and Ming Tang and Deming Liu and Lei Deng. "Simple and precise characterization of differential modal group delay arising in few-mode fiber". In: Optics Letters, vol. 46, no. 12, pp. 2856, June 2021.
DOI: 10.1364/ol.423950
- [58] Mikhail E. Belkin and Dmitriy A. Fofanov and Alexander S. Sigov. "Computer-Aided Design of an Integrated-Photonic Butler Matrix for a True-Time Delay Millimeter-Wave Antenna Feeder Network". In: 2021 Radiation and Scattering of Electromagnetic Waves (RSEMW), June 2021.
DOI: 10.1109/rsemw52378.2021.9494125
- [59] Yingrong Chen and Xi Fang and Qian Liao and Lei Zhang. "Artificial Neural Network Equalizer for Discrete B-coefficients Modulated NFDN System". In: 2021 13th International Conference on Communication Software and Networks (ICCSN), June 2021.
DOI: 10.1109/iccsn52437.2021.9463616
- [60] Yingrong Chen and Xi Fang and Qian Liao and Lei Zhang. "Equalization of Polarization-Division-Multiplexed NFDN System Based on Advanced K-Means". In: 2021 13th International Conference on Communication Software and Networks (ICCSN), June 2021.
DOI: 10.1109/iccsn52437.2021.9463636
- [61] Inna Kurbatska and Sandis Spolitis and Vjaceslavs Bobrovs. "Evaluation of the Performance-Affecting Factors in the Converged PON". In: 2021 25th International Conference Electronics, June 2021.
DOI: 10.1109/ieeconf52705.2021.9467482
- [62] Xiaoxue Gong and Qihan Zhang and Xu Zhang and Ran Xuan and Lei Guo. "Security Issues and Possible Solutions of Future-Oriented Optical Access Networks for 5G and Beyond". In: IEEE Communications Magazine, vol. 59, no. 6, pp. 112–118, June 2021.

DOI: 10.1109/mcom.011.2100044

- [63] Blaise Tshibangu-Mbuebue and Roberto Rojas Laguna and Min Won Lee and Jorge Rodríguez-Asomoza and Ignacio Enrique Zaldívar-Huerta. "Numerical Study of a Reconfigurable Multiband Microwave Photonic Filter Using a Tunable Fabry-Perot Filter". In: *Electronics*, vol. 10, no. 12, pp. 1473, June 2021.
DOI: 10.3390/electronics10121473
- [64] Wu and Qi and Zhu and Yixiao and Yin and Longjie and Hu and Weisheng. "Quantization Noise-Aware Partial Pre-Emphasis Model and Experimental Validation in High-Speed IM-DD System". In: *2021 Optical Fiber Communications Conference and Exhibition (OFC)*, pp. 1-3, June 2021.
DOI: 10.1364/OFC.2021.W7F.7
- [65] Ankush Mahajan and Kostas Christodoulopoulos and Ricardo Martínez and Raul Muñoz and Salvatore Spadaro. "Adaptive and Iterative QoT Estimator Retraining for Launch Power Optimization". In: *Optical Fiber Communication Conference (OFC) 2021*, pp. M3E.7, June 2021.
- [66] Qian Liao and Xi Fang and Yingrong Chen and Lei Zhang. "Channel Estimation Method for Discrete Spectrum Modulated NFDM Systems". In: *2021 13th International Conference on Communication Software and Networks (ICCSN)*, June 2021.
DOI: 10.1109/iccsn52437.2021.9463650
- [67] Lucas Marim da Silva and Romulo de Paula and Jose Augusto de Oliveira and Mirian Santos and Rafael Penchel and Grethell G. Perez and Marcelo L. F. Abbade and Ivan Aldaya. "Nonlinear phase noise compensation in single-span digital coherent optical systems employing artificial neural networks". In: *2021 SBFoton International Optics and Photonics Conference SBFoton IOPC*, May 2021.
DOI: 10.1109/sbfotoniopc50774.2021.9461958
- [68] Abdelkerim Amari and Andre Richter. "Multi-dimensional Short Blocklength Probabilistic Shaping for Digital Subcarrier Multiplexing Systems". In: *OSA Advanced Photonics Congress*, May 2021.
- [69] Yingrong Chen and Ding Ding and Qian Liao and Xi Fang and Lei Zhang. "Neural Network-based Noise Suppression method for NFT-based Multi-eigenvalue Transmission". In: *IEEE Communications Letters*, pp. 1-1, May 2021.
DOI: 10.1109/lcomm.2021.3081632
- [70] Abdelli and Khoulood and Griesser and Helmut and Pachnicke and Stephan. "Convolutional Neural Networks for Reflective Event Detection and Characterization in Fiber Optical Links Given Noisy OTDR Signals". In: *Photonic Networks; 22th ITG Symposium*, pp. 1-5, May 2021.
- [71] Natsupa Taengnoi and Kyle R. H. Bottrill and Yang Hong and Naresh K. Thipparapu and Cosimo Lacava and Jayanta K. Sahu and David J. Richardson and Periklis Petropoulos. "4-Level Alternate-Mark-Inversion for Reach Extension in the O-Band Spectral Region". In: *Journal of Lightwave Technology*, vol. 39, no. 9, pp. 2847-2853, May 2021.
DOI: 10.1109/jlt.2021.3062446
- [72] Arthur J. Lowery and Timothy Feleppa. "Analog Low-Latency Kramers-Kronig optical Single-Sideband Receiver". In: *Journal of Lightwave Technology*, vol. 39, no. 10, pp. 3130-3136, May 2021.
DOI: 10.1109/jlt.2021.3060062
- [73] Yishan Jiang and Xiukai Ruan and Zhili Zhou and Jiangqi Hu. "Blind Equalization Algorithms Applied to Dispersion Compensation in POLMUX Coherent Optical Communication System". In: *2021 IEEE 6th International Conference on Computer and Communication Systems (ICCCS)*, April 2021.
DOI: 10.1109/icccs52626.2021.9449271
- [74] Yibo Lyu and Xu Li and Weiwei Zhang and Tianxiang Wang. "Digital Linearization for WDM-RoF System". In: *2021 IEEE 93rd Vehicular Technology Conference VTC2021-Spring*, April 2021.
DOI: 10.1109/vtc2021-spring51267.2021.9448651

- [75] Jinlong Wei and Cedric Lam and Ji Zhou and Ivan Aldaya and Elias Giacomidis and Andre Richter and Qixiang Cheng and Richard Penty and Ian White. "Low Complexity DSP for High Speed Optical Access Networking". In: Applied Sciences, vol. 11, no. 8, pp. 3406, April 2021.
DOI: 10.3390/app11083406
- [76] Peixuan Li and Wei Pan and Xihua Zou and Wenlin Bai and Yan Pan and Xiuyou Han and Lianshan Yan. "Fast Self-adaptive Generic Digital Linearization for Analog Microwave Photonic Systems". In: Journal of Lightwave Technology, pp. 1–1, April 2021.
DOI: 10.1109/jlt.2021.3076821
- [77] Er'el Granot and Gilad Katz. "PAM-N - Fundamental Limits in Chromatic Dispersive-Uncompensated Channels". In: Applied Sciences, vol. 11, no. 6, pp. 2542, March 2021.
DOI: 10.3390/app11062542
- [78] Xinyu Chen and Hao Ming and Chenjia Li and Guangqiang He and Fan Zhang. "Two-stage artificial neural network-based burst-subcarrier joint equalization in nonlinear frequency division multiplexing systems". In: Optics Letters, vol. 46, no. 7, pp. 1700, March 2021.
DOI: 10.1364/ol.422195
- [79] Yuanxiang Chen and Yongtao Huang and Ying Han and Jia Fu and Jianguo Yu. "Experimental demonstration of pseudo-pilots-aided Gaussian basis expansion-based phase noise suppression scheme for CO-OFDM". In: Optics Express, vol. 29, no. 8, pp. 11750, March 2021.
DOI: 10.1364/oe.416153
- [80] Toms Salgals and Janis Alnis and Rihards Murnieks and Inga Brice and Jurgis Porins and Alexey V. Andrianov and Elena A. Anashkina and Sandis Spolitis and Vjaceslavs Bobrovs. "Demonstration of a fiber optical communication system employing a silica microsphere-based OFC source". In: Optics Express, vol. 29, no. 7, pp. 10903, March 2021.
DOI: 10.1364/oe.419546
- [81] Xueliang Li and Tianwen Geng and Yucong Gu and Ruotong Tian and Shijie Gao. "Compensation for In-Phase/Quadrature Phase Mismatch in Coherent Free-Space Optical QPSK Communication Systems". In: Applied Sciences, vol. 11, no. 6, pp. 2543, March 2021.
DOI: 10.3390/app11062543
- [82] André Richter and Denis Matsiusheuski and Andrzej Polatynski and Onur Duzgol and Eugene Sokolov and Igor Koltchanov and Sergei Mingaleev. "Schematic-driven PIC design process considering manufacturing tolerances". In: Smart Photonic and Optoelectronic Integrated Circuits XXIII, March 2021.
DOI: 10.1117/12.2577209
- [83] Faith K. Deynu and Evans W. Akpari and Constant Akama. "Low-Overhead Low-Complexity Carrier Phase Recovery Technique for Coherent Multi-Band OFDM-Based Superchannel Systems Enabled by Optical Frequency Combs". In: Journal of Microwaves, Optoelectronics and Electromagnetic Applications, vol. 20, no. 1, pp. 173–194, March 2021.
DOI: 10.1590/2179-10742021v20i1965
- [84] Maged A. Esmail and Waddah S. Saif and Amr M. Ragheb and Saleh A. Alshebeili. "Free space optic channel monitoring using machine learning". In: Optics Express, vol. 29, no. 7, pp. 10967, March 2021.
DOI: 10.1364/oe.416777
- [85] Yudi Fu and Mengfan Cheng and Weidong Shao and Hanwen Luo and Di Li and Lei Deng and Qi Yang and Deming Liu. "Analog-digital hybrid chaos-based long-haul coherent optical secure communication". In: Optics Letters, vol. 46, no. 6, pp. 1506, March 2021.
DOI: 10.1364/ol.421770

- [86] Andis Supe and Sergejs Olonkins and Aleksejs Udalcovs and Ugis Senkans and Rihards M'Cladding-Pumped Erbium/Ytterbium Co-Doped Fiber Amplifier for C-Band Operation in Optical Networks". In: Applied Sciences, vol. 11, no. 4, pp. 1702, February 2021.
DOI: 10.3390/app11041702
- [87] Eszter Udvary. "Performance optimization of RSOA based mm-wave radio-over-fibre access network". In: Optical and Quantum Electronics, vol. 53, no. 10, February 2021.
DOI: 10.1007/s11082-021-03225-y
- [88] Junhao Ba and Zhiping Huang and Fangqi Shen and Junyu Wei. "Joint Estimation of Symbol Rate and Chromatic Dispersion Using Delayed Multiplier for Optical Performance Monitoring". In: Photonics, vol. 8, no. 2, pp. 58, February 2021.
DOI: 10.3390/photonics8020058
- [89] Wen Cheng and Haiping Song and Di Li and Pin Yi and Mengfan Cheng and Deming Liu and Lei Deng. "A Robust Sparse RLS-Volterra Nonlinear Equalizer Using l0-Regularization for 4 x 150 Gbit/s IMDD-Based Optical Interconnect". In: IEEE Access, vol. 9, pp. 30881–30892, February 2021.
DOI: 10.1109/access.2021.3059522
- [90] Luxiao Sang and Yuanyuan Guo and Haifang Liu and Jianguo Zhang and Yuncai Wang. "Real-time all-optical random numbers based on optical Boolean chaos". In: Optics Express, vol. 29, no. 5, pp. 7100, February 2021.
DOI: 10.1364/oe.420010
- [91] Jingwei Li and Yibo Lyu and Xu Li and Tianxiang Wang and Xiaowen Dong. "Reservoir Computing Based Equalization for Radio over Fiber System". In: 2021 23rd International Conference on Advanced Communication Technology (ICACT), February 2021.
DOI: 10.23919/icact51234.2021.9370401
- [92] Hongjing Lv and Xian Zhou and Jiahao Huo and Jinhui Yuan. "Joint OSNR monitoring and modulation format identification on signal amplitude histograms using convolutional neural network". In: Optical Fiber Technology, vol. 61, pp. 102455, January 2021.
DOI: 10.1016/j.yofte.2021.102455
- [93] Mikhail E. Belkin and Dmitriy Fofanov and Alexander Sigov. "Microwave photonics approach as a novel smart fabrication technique of a radio communication jammers". In: Procedia Computer Science, vol. 180, pp. 950–957, January 2021.
DOI: 10.1016/j.procs.2021.01.346
- [94] Jia Chai and Yan Zhao and Xue Chen and Jinhao Du and Jian Li and Tao Yang and Liqian Wang and Zhiguo Zhang. "Cost-effective OSNR monitoring with large chromatic dispersion tolerance using random forest for intermediate nodes". In: Optics Communications, vol. 479, pp. 126469, January 2021.
DOI: 10.1016/j.optcom.2020.126469
- [95] Umar Farooq and Amalia Miliou. "Channel Equalization for converged OFDM-Based 5G mm-wave A-RoF System at 60 GHz". In: 2021 IEEE 11th Annual Computing and Communication Workshop and Conference (CCWC), January 2021.
DOI: 10.1109/ccwc51732.2021.9375831

2020

- [96] Ramón Gutiérrez-Castrejón and Osvaldo Fernández-Segura and Pablo Torres-Ferrera and Daniel Enrique Ceballos-Herrera. "Performance analysis of a directly modulated semiconductor optical amplifiers using non-return-to-zero, duobinary and quaternary pulse amplitude modulation signalling". In: IET Optoelectronics, vol. 15, no. 1, pp. 8–19, December 2020.
DOI: 10.1049/ote2.12007
- [97] Qian Xiang and Yanfu Yang and Qun Zhang and Yong Yao. "Machine Learning Assisted Modulation-Format Transparent and Nonlinearity Tolerant Carrier Recovery Scheme for Intelligent Receiver". In: Journal of Lightwave Technology, vol. 38, no. 21, pp. 6007–6014, November 2020.
DOI: 10.1109/jlt.2020.3007797
- [98] Christian Daniel Muñoz and Margarita Varón and Fabien Destic and Angélique Rissons. "Self-starting VCSEL-based optical frequency comb generator". In: Optics Express, vol. 28, no. 23, pp. 34860, November 2020.
DOI: 10.1364/oe.400970
- [99] Keji Zhou and Sheng Cui and Yunfeng Gu and Yicong Tu and Changjian Ke and Deming Liu. "Design of the Real-Time Single-Photodiode Digital Coherent Receiver Suitable for Free Space Optical Communication". In: IEEE Photonics Journal, vol. 12, no. 5, pp. 1–12, October 2020.
DOI: 10.1109/jphot.2020.3022768
- [100] Mehedi Hasan and Mohammad Rad and Gazi Mahamud Hasan and Peng Liu and Patrick Dumais and Eric Bernier and Trevor J. Hall. "Ultra-High Resolution Wideband on-Chip Spectrometer". In: IEEE Photonics Journal, vol. 12, no. 5, pp. 1–17, October 2020.
DOI: 10.1109/jphot.2020.3021676
- [101] Chung-Yi Li and Ching-Hung Chang and Dong-Yi Lu. "Full-Duplex Self-Recovery Optical Fibre Transport System Based on a Passive Single-Line Bidirectional Optical Add/Drop Multiplexer". In: IEEE Photonics Journal, vol. 12, no. 5, pp. 1–10, October 2020.
DOI: 10.1109/jphot.2020.3022703
- [102] Fyodor Morozko and Andrey Novitsky and Alina Karabchevsky. "Modal Purcell factor in PT-symmetric waveguides". In: Physical Review B, vol. 102, no. 15, pp. 155303, October 2020.
DOI: 10.1103/physrevb.102.155303
- [103] Yu Liu and Xin Li and Ying Tang and Zicheng Shi and Shanguo Huang. "Binary sequence matching system based on cross-phase modulation and four-wave mixing in highly nonlinear fibers". In: Optical Engineering, vol. 59, no. 10, October 2020.
DOI: 10.1117/1.oe.59.10.105103
- [104] Ilan Correa and Boris Dortschy and Aldebaro Klautau. "SNR-Based Pre-Emphasis for Transmission of Frequency-Multiplexed Radio Signals in Fronthaul". In: IEEE Communications Letters, vol. 24, no. 9, pp. 2034–2037, September 2020.
DOI: 10.1109/lcomm.2020.2994767
- [105] Danshi Wang and Yuchen Song and Jin Li and Jun Qin and Tao Yang and Min Zhang and Xue Chen and Anthony C. Boucouvalas. "Data-driven Optical Fiber Channel Modeling: A Deep Learning Approach". In: Journal of Lightwave Technology, vol. 38, no. 17, pp. 4730–4743, September 2020.
DOI: 10.1109/jlt.2020.2993271
- [106] Yan Zhao and Xue Chen and Tao Yang and Liqian Wang and Danshi Wang and Zhiguo Zhang and Sheping Shi. "Low-Complexity Fiber Nonlinearity Impairments Compensation Enabled by Simple Recurrent Neural Network With Time Memory". In: IEEE Access, vol. 8, pp. 160995–161004, September 2020.
DOI: 10.1109/access.2020.3021146

- [107] Gabriele Di Rosa and Andre Richter. "Low Complexity Blind Carrier Phase Recovery for Probabilistically Shaped QAM". In: IEEE Photonics Technology Letters, vol. 32, no. 17, pp. 1109–1112, September 2020.
DOI: 10.1109/1pt.2020.3012970
- [108] Luxiao Sang and Jianguo Zhang and Tong Zhao and Martin Virte and Lishuang Gong and Yuncai Wang. "Optical Boolean chaos". In: Optics Express, vol. 28, no. 20, pp. 29296, September 2020.
DOI: 10.1364/oe.404879
- [109] Ahmad Fallahpour and Fatemeh Alishahi and Amir Minoofar and Kaiheng Zou and Ahmed Almainan and Peicheng Liao and Hubin Zhou and Moshe Tur and Alan E. Willner. "16-QAM probabilistic constellation shaping by adaptively modifying the distribution of transmitted symbols based on errors at the receiver". In: Optics Letters, vol. 45, no. 18, pp. 5283, September 2020.
DOI: 10.1364/ol.401642
- [110] Wei Wang and Fan Li and Zibin Li and Qi Sui and Zhaohui Li. "Dual-Drive Mach-Zehnder Modulator-Based Single Side-Band Modulation Direct Detection System Without Signal-to-Signal Beating Interference". In: Journal of Lightwave Technology, vol. 38, no. 16, pp. 4341–4351, August 2020.
DOI: 10.1109/jlt.2020.2992046
- [111] Gabriele di Rosa and Andre Richter. "Achievable Mitigation of Nonlinear Phase Noise through Optimized Blind Carrier Phase Recovery". In: 2020 22nd International Conference on Transparent Optical Networks (ICTON), July 2020.
DOI: 10.1109/icton51198.2020.9203148
- [112] B. Shi and N. Calabretta and R. Stabile. "Matrix Multiplication Unit Scalability Investigation for InP SOA-based Photonic Deep Neural Network". In: 2020 IEEE Photonics Society Summer Topicals Meeting Series (SUM), July 2020.
DOI: 10.1109/sum48678.2020.9161056
- [113] Stelios Pitris and Charoula Mitsolidou and Miltiadis Moralis-Pegios and Konstantinos Fotiadis and Yoojin Ban and Peter De Heyn and Joris Van Campenhout and Joris Lambrecht and Hannes Ramon and Xin Yin and Johan Bauwelinck and Nikos Pleros and Theonitsa Alexoudi. "400 Gb/s Silicon Photonic Transmitter and Routing WDM Technologies for Glueless 8-Socket Chip-to-Chip Interconnects". In: Journal of Lightwave Technology, vol. 38, no. 13, pp. 3366–3375, July 2020.
DOI: 10.1109/jlt.2020.2977369
- [114] Chenyu Liang and Wenjia Zhang and Jiangbing Du and Zuyuan He. "Modulation nonlinearity characterization for rate-equation-based diode lasers using cross-correlation-calculation-enabled behavioral modeling". In: Optics Letters, vol. 45, no. 15, pp. 4284, July 2020.
DOI: 10.1364/ol.399740
- [115] Abdelkerim Amari and Andre Richter. "Probabilistic Shaping for PAM-8 Optical Ethernet Systems". In: 2020 22nd International Conference on Transparent Optical Networks (ICTON), July 2020.
DOI: 10.1109/icton51198.2020.9203547
- [116] Olga Vassilieva and Inwoong Kim and Tadashi Ikeuchi. "On the Fairness of the Performance Evaluation of Probabilistically Shaped QAM Signals". In: Journal of Lightwave Technology, vol. 38, no. 11, pp. 3067–3073, June 2020.
DOI: 10.1109/jlt.2020.2986140
- [117] Yibo Zhong and Sheng Cui and Hongwei Lu and Changjian Ke and Haoyu Wang and Peishan Jiang and Deming Liu. "A Robust Reference Optical Spectrum Based in-Band OSNR Monitoring Method Suitable for Flexible Optical Networks". In: IEEE Photonics Journal, vol. 12, no. 3, pp. 1–10, June 2020.
DOI: 10.1109/jphot.2020.2983058

- [118] Xiaoling Zhang and Chongfu Zhang and Mingyue Zhu and Wei Jin and Chen Chen and Xiang Gao and Kun Qiu. "SSB Pruned DFT-Spread FBMC Signal With Low PAPR in Direct-Detection PONs". In: IEEE Photonics Journal, vol. 12, no. 3, pp. 1–13, June 2020.
DOI: 10.1109/jphot.2020.2993075
- [119] Ling Xiao and Yang Zhou and Xi Fang and Zifang Yu and Ding Ding. "Chaotic Multiplication Encryption Method for Security-Enhanced COOFDM/OQAM Systems". In: 2020 12th International Conference on Communication Software and Networks (ICCSN), June 2020.
DOI: 10.1109/iccsn49894.2020.9139052
- [120] Zifang Yu and Xi Fang and Yang Zhou and Ling Xiao and Lei Zhang. "Chaotic Constellation Scrambling Method for Security-Enhanced CO-OFDM/OQAM Systems". In: 2020 12th International Conference on Communication Software and Networks (ICCSN), June 2020.
DOI: 10.1109/iccsn49894.2020.9139111
- [121] Junying Mao and Xi Fang and Yueyang Yu and Ding Ding and Lei Zhang and Guiqiu Jiang. "Comparison of OFDM and OFDM/OQAM Systems in Nonlinear Interference". In: 2020 12th International Conference on Communication Software and Networks (ICCSN), June 2020.
DOI: 10.1109/iccsn49894.2020.9139107
- [122] Junying Mao and Xi Fang and Xin Sui and Ding Ding and Lei Zhang and Guiqiu Jiang. "Analysis of Nonlinear Interference in CO-OFDM/OQAM Systems Based Volterra Series". In: 2020 12th International Conference on Communication Software and Networks (ICCSN), June 2020.
DOI: 10.1109/iccsn49894.2020.9139071
- [123] Yixin Fu and Xi Fang and Xin Sui and Lei Zhang and Ding Ding and Xianwei Gao. "One Design of Pseudo Pilot to Suppress the Nonlinear Interference in Optical OFDM/OQAM System". In: 2020 12th International Conference on Communication Software and Networks (ICCSN), June 2020.
DOI: 10.1109/iccsn49894.2020.9139103
- [124] Yixin Fu and Xi Fang and Xin Sui and Lei Zhang and Ding Ding and Xianwei Gao. "Volterra Based Nonlinear Equalization Method for Optical High-order OFDM/OQAM". In: 2020 12th International Conference on Communication Software and Networks (ICCSN), June 2020.
DOI: 10.1109/iccsn49894.2020.9139106
- [125] Yixin Fu and Xi Fang and Xin Sui and Lei Zhang and Ding Ding and Xianwei Gao. "Analysis of the Pseudo Pilot in Optical OFDM/OQAM System". In: 2020 12th International Conference on Communication Software and Networks (ICCSN), June 2020.
DOI: 10.1109/iccsn49894.2020.9139109
- [126] Liang Shu and Zhenming Yu and Zhiquan Wan and Kun Xu. "Application analysis of clipping and digital resolution enhancer in high-speed direct-detection PAM4 transmission". In: Optics Express, vol. 28, no. 12, pp. 17841, May 2020.
DOI: 10.1364/oe.394412
- [127] Ankush Mahajan and Konstantinos Christodoulopoulos and Ricardo Martinez and Salvatore Spadaro and Raul Munoz. "Modeling EDFA Gain Ripple and Filter Penalties With Machine Learning for Accurate QoT Estimation". In: Journal of Lightwave Technology, vol. 38, no. 9, pp. 2616–2629, May 2020.
DOI: 10.1109/jlt.2020.2975081
- [128] Filippo Cugini and Andrea Sgambelluri and Pantea Nadimi Goki and Francesco Paolucci and Marco Presi. "Single-Fiber Bidirectional Filterless Metro Network". In: 2020 International Conference on Optical Network Design and Modeling (ONDM), May 2020.
DOI: 10.23919/ondm48393.2020.9132996

- [129] Sören Kreinberg and Piotr Novik and Igor Koltchanov and André Richter. "Modelling Weak-Coherent QKD Systems Using a Classical Simulation Framework". In: Conference on Lasers and Electro-Optics, May 2020.
DOI: 10.1364/cleo_at.2020.ath1i.4
- [130] Sören Kreinberg and Igor Koltchanov and André Richter. "Adding Artificial Noise for Dynamic Code Rate Matching in Continuous-Variable Quantum Key Distribution". In: Conference on Lasers and Electro-Optics, May 2020.
DOI: 10.1364/cleo_at.2020.ath1i.6
- [131] Gabriele Di Rosa and Md Asif Iqbal and Andre Richter and Wladek Forysiak. "Prediction of Performance Penalty due to Pump-Signal Overlap in Raman-amplified Systems". In: Conference on Lasers and Electro-Optics, May 2020.
DOI: 10.1364/cleo_si.2020.sf2l.6
- [132] I. Cardea and D. Grassani and J. Upham and R. W. Boyd and S. A. Schulz and K. L. Tsakmakidis and C. S. Brès. "Theoretical and numerical study of the time-bandwidth product in resonant cavities with nonreciprocal coupling". In: Conference on Lasers and Electro-Optics, May 2020.
DOI: 10.1364/cleo_si.2020.sth4j.4
- [133] Yu Liu and Shanguo Huang and Xin Li. "Photonic Firewall Oriented Fast All-Optical Binary Pattern Recognition". In: 2020 International Conference on Optical Network Design and Modeling (ONDM), May 2020.
DOI: 10.23919/ondm48393.2020.9133033
- [134] Yitong Li and You-Wei Chen and Wen Zhou and Xizi Tang and Jin Shi and Li Zhao and Jianguo Yu and Gee-Kung Chang. "D-Band mm-Wave SSB Vector Signal Generation Based on Cascaded Intensity Modulators". In: IEEE Photonics Journal, vol. 12, no. 2, pp. 1–11, April 2020.
DOI: 10.1109/jphot.2020.2974256
- [135] Liang Shu and Zhenming Yu and Zhiquan Wan and Kun Xu. "Low-complexity storage-reduced digital spectrum-based soft-failure management with Welch's method". In: Optics Express, vol. 28, no. 9, pp. 12529, April 2020.
DOI: 10.1364/oe.387384
- [136] Qingzhao Tan and Aiying Yang and Peng Guo and Zhao Zhao. "Blind Frequency Offset Estimation Based on Phase Rotation For Coherent Transceiver". In: IEEE Photonics Journal, vol. 12, no. 2, pp. 1–12, April 2020.
DOI: 10.1109/jphot.2020.2983086
- [137] Mikhail Belkin and Aleksey Alyoshin and Dmitriy Fofanov. "Designing WDM-RoF Concept-Based Full-Duplex MMW Fiber Fronthaul Microcell Network". In: 2020 26th Conference of Open Innovations Association (FRUCT), April 2020.
DOI: 10.23919/fruct48808.2020.9087454
- [138] Tao Yang and Aiying Yang and Peng Guo and Yaojun Qiao and Xiangjun Xin. "A Novel Nonlinear Noise Power Estimation Method Based on Error Vector Correlation Function Using Artificial Neural Networks For Coherent Optical Fiber Transmission Systems". In: IEEE Access, vol. 8, pp. 75256–75263, April 2020.
DOI: 10.1109/access.2020.2989081
- [139] Ankush Mahajan and Kostas Christodoulopoulos and Ricardo Martinez and Salvatore Spadaro and Raul Munoz. "Modeling Filtering Penalties in ROADM-based Networks with Machine Learning for QoT Estimation". In: Optical Fiber Communication Conference (OFC) 2020, March 2020.
DOI: 10.1364/ofc.2020.th3d.4
- [140] Chenyu Liang and Wenjia Zhang and Ling Ge and Jiangbing Du and Zuyuan He. "Nonlinear Pre-Distortion Based on Indirect Learning Architecture and Cross-Correlation-Enabled Behavioral Modeling for 120-Gbps Multimode Optical Interconnects". In: Optical Fiber Communication Conference (OFC) 2020, March 2020.
DOI: 10.1364/ofc.2020.w2a.31

- [141] H. Li and J. Van Kerrebrouck and H. Ramon and L. Bogaert and J. Lambrecht and C.-Y. Wu and L. Breyne and J. Declercq and J. Bauwelinck and X. Yin and P. Ossieur and P. Demeester and G. Torfs. "Low Power All-Digital Radio-over-Fiber Transmission for 28-GHz Band using Parallel Electro-Absorption Modulators". In: Optical Fiber Communication Conference (OFC) 2020, March 2020.
DOI: 10.1364/ofc.2020.m2f.6
- [142] Xin Li and Lu Zhang and Jianghua Wei and Shanguo Huang. "Deep neural network based OSNR and availability predictions for multicast light-trees in optical WDM networks". In: Optics Express, vol. 28, no. 7, pp. 10648, March 2020.
DOI: 10.1364/oe.388337
- [143] Tao Yang and Aiyang Yang and Peng Guo and Yaojun Qiao. "Nonlinearity estimation method based on error vector correlation function in coherent optical fiber transmission systems". In: 2019 International Conference on Optical Instruments and Technology: Optical Communication and Optical Signal Processing, March 2020.
DOI: 10.1117/12.2543460
- [144] Yixiao Zhu and Bo Yang and Yiming Zhong and Zheng Liu and Yong Guo and Jun Shan Wey and Xingang Huang and Zhuang Ma. "Performance Comparison of Coherent and Direct Detection Schemes for 50G PON". In: Optical Fiber Communication Conference (OFC) 2020, March 2020.
DOI: 10.1364/ofc.2020.w1e.3
- [145] A. Fallahpour and F. Alishahi and A. Minoofar and K. Zou and A. Almainan and P. Liao and H. Zhou and M. Tur and A. E. Willner. "16-QAM Probabilistic Constellation Shaping by Learning the Distribution of Transmitted Symbols from the Training Sequence". In: Optical Fiber Communication Conference (OFC) 2020, March 2020.
DOI: 10.1364/ofc.2020.m1g.3
- [146] Miltiadis Moralis-Pegios and Stelios Pitris and Theoni Alexoudi and Nikos Terzenidis and Hannes Ramon and Joris Lambrecht and Johan Bauwelinck and Xin Yin and Yoojin Ban and Peter de Heyn and Joris van Campenhout and Tobias Lamprecht and Andreas Lehman and Nikos Pleros. "4-channel 200 Gb/s WDM O-band silicon photonic transceiver sub-assembly". In: Optics Express, vol. 28, no. 4, pp. 5706, February 2020.
DOI: 10.1364/oe.373454
- [147] Marcelo L. F. Abbade and Marcelo P. Nogueira and Melissa O. Santos and Eric A. M. Fagotto and Luiz H. Bonani and Ivan Aldaya. "DSP-Based Multi-Channel Spectral Shuffling Applied to Optical Networks". In: IEEE Photonics Technology Letters, vol. 32, no. 3, pp. 154–157, February 2020.
DOI: 10.1109/1pt.2019.2962837
- [148] Keji Zhou and Sheng Cui and Yicong Tu and Deming Liu. "A Method to Reduce the Algorithm Complexity of the Single-Photodiode-per-Polarization Coherent Receiver". In: IEEE Photonics Journal, vol. 12, no. 1, pp. 1–10, February 2020.
DOI: 10.1109/jphot.2019.2961108
- [149] Honghui Zhang and Qiulin Zhang and Chaoran Huang and Chester Shu. "Transmission Impairment Mitigation for Single-Sideband Signals by Optical Phase Conjugation". In: IEEE Photonics Technology Letters, vol. 32, no. 3, pp. 150–153, February 2020.
DOI: 10.1109/1pt.2019.2962712
- [150] Shabnam Noor and Philippos Assimakopoulos and Minqi Wang and Hazim A. Abdulsada and Naveena Genay and Luiz Anet Neto and Philippe Chanclou and Nathan J. Gomes. "Comparison of digital signal processing approaches for subcarrier multiplexed 5G and beyond analog fronthaul". In: Journal of Optical Communications and Networking, vol. 12, no. 3, pp. 62, February 2020.
DOI: 10.1364/jocn.381341
- [151] Rashmi Kamran and Nandakumar Nambath and Sarath Manikandan and Rakesh Ashok and Rachit Jain and Nandish Bharat Thaker and Shalabh Gupta. "Demonstration of a low-power, local-oscillator-less,

- and DSP-free coherent receiver for data center interconnects". In: Applied Optics, vol. 59, no. 7, pp. 2031, February 2020.
DOI: 10.1364/ao.383185
- [152] Huan Huang and Ruofan Wang and Chongfu Zhang and Yong Chen and Haifeng Yang and Kun Qiu. "Tunable ultra-flat optical-comb-enabled, reconfigurable, and efficient coherent channelized receiver". In: Optics Letters, vol. 45, no. 4, pp. 848, February 2020.
DOI: 10.1364/ol.385458
- [153] Gabriele Di Rosa and Stefanos Dris and André Richter. "Statistical quantification of nonlinear interference noise components in coherent systems". In: Optics Express, vol. 28, no. 4, pp. 5436, February 2020.
DOI: 10.1364/oe.386579
- [154] George Mourgias-Alexandris and Angelina Totovic and Apostolos Tsakyridis and Nikolaos Passalis and Konstantinos Vyrsoinos and Anastasios Tefas and Nikos Pleros. "Neuromorphic Photonics With Coherent Linear Neurons Using Dual-IQ Modulation Cells". In: Journal of Lightwave Technology, vol. 38, no. 4, pp. 811–819, February 2020.
DOI: 10.1109/jlt.2019.2949133
- [155] Bin Shi and Nicola Calabretta and Ripalta Stabile. "Numerical Simulation of an InP Photonic Integrated Cross-Connect for Deep Neural Networks on Chip". In: Applied Sciences, vol. 10, no. 2, pp. 474, January 2020.
DOI: 10.3390/app10020474
- [156] Lin Jiang and Lianshan Yan and Anlin Yi and Yan Pan and Ming Hao and Wei Pan and Bin Luo. "Blind optical modulation format identification assisted by signal intensity fluctuation for autonomous digital coherent receivers". In: Optics Express, vol. 28, no. 1, pp. 302, January 2020.
DOI: 10.1364/oe.372406
- [157] Di Li and Haiping Song and Wen Cheng and Lei Deng and Mengfan Cheng and Songnian Fu and Ming Tang and Deming Liu. "180 Gb/s PAM8 Signal Transmission in Bandwidth-Limited IMDD System Enabled by Tap Coefficient Decision Directed Volterra Equalizer". In: IEEE Access, vol. 8, pp. 19890–19899, January 2020.
DOI: 10.1109/access.2020.2968128
- [158] Yitong Li and Wen Zhou and You-Wei Chen and Yuanxiang Chen and Yongtao Huang and Kaile Li and Jianguo Yu and Gee-Kung Chang. "Optical comb generator with flat-topped spectral response using one electroabsorption-modulated laser and one phase modulator". In: Optical Engineering, vol. 59, no. 01, pp. 1, January 2020.
DOI: 10.1117/1.oe.59.1.016112

2019

- [159] Qifeng Yan and Liu Liu and Xuezhi Hong. "Blind Carrier Frequency Offset Estimation in Coherent Optical Communication Systems With Probabilistically Shaped M-QAM". In: *Journal of Lightwave Technology*, vol. 37, no. 23, pp. 5856–5866, December 2019.
DOI: 10.1109/jlt.2019.2940770
- [160] Zhenming Yu and Zhiquan Wan and Liang Shu and Shaohua Hu and Yilun Zhao and Jing Zhang and Kun Xu. "Loss weight adaptive multi-task learning based optical performance monitor for multiple parameters estimation". In: *Optics Express*, vol. 27, no. 25, pp. 37041, December 2019.
DOI: 10.1364/oe.27.037041
- [161] Xi Chen and Yizhao Chen and Ming Tang and Tianhao Tong and Songnian Fu and Deming Liu. "Adaptive Uniform Entropy Loading for SSB-DMT Systems". In: *Journal of Lightwave Technology*, vol. 37, no. 23, pp. 5961–5970, December 2019.
DOI: 10.1109/jlt.2019.2944480
- [162] Klaus-J. Boller and Albert van Rees and Youwen Fan and Jesse Mak and Rob Lammerink and Cornelis Franken and Peter van der Slot and David Marpaung and Carsten Fallnich and Jörn Epping and Ruud Oldenbeuving and Dimitri Geskus and Ronald Dekker and Ilka Visscher and Robert Grootjans and Chris Roeloffzen and Marcel Hoekman and Edwin Klein and Arne Leinse and René Heideman. "Hybrid Integrated Semiconductor Lasers with Silicon Nitride Feedback Circuits". In: *Photonics*, vol. 7, no. 1, pp. 4, December 2019.
DOI: 10.3390/photonics7010004
- [163] Zhaopeng Xu and Chuanbowen Sun and Tonghui Ji and Jonathan H. Manton and William Shieh. "Computational complexity comparison of feedforward/radial basis function/recurrent neural network-based equalizer for a 50-Gb/s PAM4 direct-detection optical link". In: *Optics Express*, vol. 27, no. 25, pp. 36953, December 2019.
DOI: 10.1364/oe.27.036953
- [164] Danshi Wang and Yilan Xu and Jianqiang Li and Min Zhang and Jin Li and Jun Qin and Cheng Ju and Zhiguo Zhang and Xue Chen. "Comprehensive Eye Diagram Analysis: A Transfer Learning Approach". In: *IEEE Photonics Journal*, vol. 11, no. 6, pp. 1–19, December 2019.
DOI: 10.1109/jphot.2019.2947705
- [165] Ming Hao and Lianshan Yan and Anlin Yi and Lin Jiang and Yan Pan and Wei Pan and Bin Luo. "OSNR Monitoring Using Support Vector Ordinal Regression for Digital Coherent Receivers". In: *IEEE Photonics Journal*, vol. 11, no. 5, pp. 1–11, December 2019.
DOI: 10.1109/jphot.2019.2941984
- [166] Venkatesh Chakravartula and Dhanalakshmi Samiappan and R. Kumar. "Sensitivity enhancement analysis due to different coating materials of Fibre Bragg Grating-based depth sensor for underwater applications". In: *Optical and Quantum Electronics*, vol. 52, no. 1, December 2019.
DOI: 10.1007/s11082-019-2144-x
- [167] Mikhail E. Belkin and Tatiana N. Bakhvalova and Alexander S. Sigov. "Design Principles of 5G NR RoF-Based Fiber-Wireless Access Network". In: *Recent Trends in Communication Networks [Working Title]*, November 2019.
DOI: 10.5772/intechopen.90074
- [168] M. Verplaetse and L. Breyne and J. Van Kerrebrouck and P. Ossieur and G. Torfs. "Electronic Dispersion Precompensation of Direct-Detected NRZ Using Analog Filtering". In: *IEEE Photonics Technology Letters*, vol. 31, no. 22, pp. 1771–1774, November 2019.
DOI: 10.1109/1pt.2019.2946497

- [169] Yingjun Zhou and Jianjun Yu and Yiran Wei and Jianyang Shi and Nan Chi. "Four-Channel WDM 640 Gb/s 256 QAM Transmission Utilizing Kramers-Kronig Receiver". In: *Journal of Lightwave Technology*, vol. 37, no. 21, pp. 5466–5473, November 2019.
DOI: 10.1109/jlt.2019.2943122
- [170] Christos Vagionas and Apostolos Tsakyridis and George Mourgias-Alexandris and Stelios Pitris and Pavlos Maniotis and Nikos Pleros and Theoni Alexoudi. "Optical memory architectures for fast routing address look-up (AL) table operation". In: *Journal of Physics: Photonics*, vol. 1, no. 4, pp. 044005, October 2019.
DOI: 10.1088/2515-7647/ab4368
- [171] Lukasz Chorchos and Jaroslaw P. Turkiewicz. "O-Band 8x100G Data Transmission With 240 GHz Channel Spacing". In: *IEEE Communications Letters*, pp. 1–1, October 2019.
DOI: 10.1109/lcomm.2019.2944819
- [172] Lin Sun and Jiangbing Du and Jiacheng Liu and Bin Chen and Ke Xu and Bo Liu and Chao Lu and Zuyuan He. "Intelligent 2-dimensional soft decision enabled by k-means clustering for VCSEL-based 112-Gbps PAM-4 and PAM-8 optical interconnection". In: *Journal of Lightwave Technology*, pp. 1–1, October 2019.
DOI: 10.1109/jlt.2019.2946920
- [173] Liang Shu and Zhenming Yu and Zhiquan Wan and Jing Zhang and Shaohua Hu and Kun Xu. "Dual-Stage Soft Failure Detection and Identification for Low-Margin Elastic Optical Network by Exploiting Digital Spectrum Information". In: *Journal of Lightwave Technology*, pp. 1–1, October 2019.
DOI: 10.1109/jlt.2019.2947562
- [174] Melissa de Oliveira Santos and Welerson Santos Souza and Thiago de Andrade Bragagnolle and Leonardo Diogo Bueno Bobadilla Ivan Aldaya and Afonso Jose do Prado and Andre Alves Ferreira and Marcelo Luis Francisco Abbade and Luiz Henrique Bonani do Nascimento. "All-optical Spectral Shuffling Applied to 16-QAM Signals". In: *2019 SBFoton International Optics and Photonics Conference (SBFoton IOPC)*, October 2019.
DOI: 10.1109/sbfoton-iopc.2019.8910255
- [175] Cheng Ju and Na Liu and Changhong Li. "In-Service Blind Transceiver IQ Imbalance and Skew Monitoring in Long-Haul Non-Dispersion Managed Coherent Optical Systems". In: *IEEE Access*, vol. 7, pp. 150051–150059, October 2019.
DOI: 10.1109/access.2019.2947467
- [176] Carmen Vazquez and Juan Dayron Lopez-Cardona and Pedro Contreras Lallana and David Sanchez Montero and Fahad Mohammed Abdulhussein Al-Zubaidi and Sandra Perez-Prieto and Isabel Perez Garcilopez. "Multicore Fiber Scenarios Supporting Power Over Fiber in Radio Over Fiber Systems". In: *IEEE Access*, vol. 7, pp. 158409–158418, October 2019.
DOI: 10.1109/access.2019.2950599
- [177] Fabiano Locatelli and Konstantinos Christodoulopoulos and Michela Svaluto Moreolo and Josep M. Fobrega and Salvatore Spadaro. "Machine Learning-Based in-band OSNR Estimation from Optical Spectra". In: *IEEE Photonics Technology Letters*, pp. 1–1, October 2019.
DOI: 10.1109/lpt.2019.2950058
- [178] Jin Li and Danshi Wang and Min Zhang. "Low-Complexity Adaptive Chromatic Dispersion Estimation Scheme Using Machine Learning for Coherent Long-Reach Passive Optical Networks". In: *IEEE Photonics Journal*, vol. 11, no. 5, pp. 1–11, October 2019.
DOI: 10.1109/jphot.2019.2936426
- [179] Weidong Shao and Mengfan Cheng and Chenkun Luo and Lei Deng and Minming Zhang and Songnian Fu and Ming Tang and Deming Liu. "An Image Encryption Scheme Based on Hybrid Electro-Optic Chaotic Sources and Compressive Sensing". In: *IEEE Access*, vol. 7, pp. 156582–156591, October 2019.
DOI: 10.1109/access.2019.2949704

- [180] Pascual Munoz and Paulus W. L. van Dijk and Douwe Geuzebroek and Michael Geiselmann and Carlos Dominguez and Andim Stassen and Jose David Domenech and Michael Zervas and Arne Leinse and Chris G. H. Roeloffzen and Bernardo Gargallo and Rocio Banos and Juan Fernandez and Gloria Mico Cabanes and Luis Alberto Bru and Daniel Pastor. "Foundry Developments Toward Silicon Nitride Photonics From Visible to the Mid-Infrared". In: IEEE Journal of Selected Topics in Quantum Electronics, vol. 25, no. 5, pp. 1–13, September 2019.
DOI: 10.1109/jstqe.2019.2902903
- [181] Abdul Rahim and Jeroen Goyvaerts and Bertrand Szelag and Jean-Marc Fedeli and Philippe Absil and Timo Aalto and Mikko Harjanne and Callum Littlejohns and Graham Reed and Georg Winzer and Stefan Lischke and Lars Zimmermann and Dieter Knoll and Douwe Geuzebroek and Arne Leinse and Michael Geiselmann and Michael Zervas and Hilde Jans and Andim Stassen and Carlos Dominguez and Pascual Munoz and David Domenech and Anna Lena Giesecke and Max C. Lemme and Roel Baets. "Open-Access Silicon Photonics Platforms in Europe". In: IEEE Journal of Selected Topics in Quantum Electronics, vol. 25, no. 5, pp. 1–18, September 2019.
DOI: 10.1109/jstqe.2019.2915949
- [182] T.N. Bakhvalova and M.E. Belkin and I.V. Gladyshev and A.S. Sigov. "Radio-Beam DOA Estimation Using All-Optical Ultra-Wideband Processing". In: 2019 International Conference on Electromagnetics in Advanced Applications (ICEAA), September 2019.
DOI: 10.1109/iceaa.2019.8879092
- [183] Xi Chen and Yizhao Chen and Ming Tang and Songnian Fu and Deming Liu. "Hybrid constellation entropy loading for adaptively partitioned SSB-DMT systems". In: Optics Express, vol. 27, no. 19, pp. 26295, September 2019.
DOI: 10.1364/oe.27.026295
- [184] Stelios Pitris and Charoula Mitsolidou and Miltiadis Moralis-Pegios and Theoni Alexoudi and Nikos Pleros. "Crosstalk-Aware Wavelength-Switched All-to-All Optical Interconnect Using Sub-Optimal AWGRs". In: IEEE Photonics Technology Letters, vol. 31, no. 18, pp. 1507–1510, September 2019.
DOI: 10.1109/lpt.2019.2935497
- [185] Xi Fang and Yueyang Yu and Hua Jiang and Xianwei Gao and Lei Zhang and Lifang Liu and Ding Ding. "Phase Offset Based Channel Estimation Method for Optical OFDM/OQAM Systems". In: IEEE Photonics Technology Letters, vol. 31, no. 15, pp. 1281–1284, August 2019.
DOI: 10.1109/lpt.2019.2925662
- [186] Turki Alrubeaan and Khalid Albagami and Amr Ragheb and Saeed Aldosari and Majid Altamimi and Saleh Alshebeili. "An Investigation of LPI Radar Waveforms Classification in RoF Channels". In: IEEE Access, pp. 1–1, August 2019.
DOI: 10.1109/access.2019.2938317
- [187] Dan Chen and Tao Shang and Xiongchao Liu and Gufeng Li and Yinling Zhang. "Photonic Microwave Up-Conversion Link With Compensation of Chromatic Dispersion-Induced Power Fading". In: IEEE Photonics Journal, vol. 11, no. 4, pp. 1–10, August 2019.
DOI: 10.1109/jphot.2019.2928031
- [188] Zihan Geng and Deming Kong and Valery Rozental and Arthur James Lowery and Bill Corcoran. "Optical sampling to enhance Nyquist-shaped signal detection under limited receiver bandwidth". In: Optics Express, vol. 27, no. 17, pp. 24007, August 2019.
DOI: 10.1364/oe.27.024007
- [189] Joris Lambrecht and Jochem Verbist and Hannes Ramon and Michael Vanhooecke and Johan Bauwelinck and Xin Yin and Gunther Roelkens. "Low-Power (1.5 pJ/b) Silicon Integrated 106 Gb/s PAM-4 Optical Transmitter". In: Journal of Lightwave Technology, pp. 1–1, August 2019.
DOI: 10.1109/jlt.2019.2933286

- [190] Lin Sun and Jiangbing Du and Ke Xu and Bo Liu and Zuyuan He. "Enabling Equalization and Soft Decision by k-Means for VCSEL-Based PAM-4 Optical Interconnection". In: IEEE Photonics Journal, vol. 11, no. 4, pp. 1–11, August 2019.
DOI: 10.1109/jphot.2019.2926999
- [191] Tianliang Zhang and Azadeh Samadian and Ali Shakeri and Behzad Mirkhanzadeh and Chencheng Shao and Miguel Razo and Marco Tacca and Alessio Ferrari and Mattia Cantono and Vittorio Curri and Giovanni Martinelli and Gabriele Maria Galimberti and Tiejun Xia and Glenn Wellbrock and Andrea Fumagalli. "A WDM Network Controller With Real-Time Updates of the Physical Layer Abstraction". In: Journal of Lightwave Technology, vol. 37, no. 16, pp. 4073–4080, August 2019.
DOI: 10.1109/jlt.2019.2924397
- [192] Yanlong Li and Nan Hua and Jiading Li and Zhizhen Zhong and Shangyuan Li and Chen Zhao and Xiaoxiao Xue and Xiaoping Zheng. "Optical spectrum feature analysis and recognition for optical network security with machine learning". In: Optics Express, vol. 27, no. 17, pp. 24808, August 2019.
DOI: 10.1364/oe.27.024808
- [193] Shabnam Noor and Philippos Assimakopoulos and Nathan J. Gomes. "A Flexible Subcarrier Multiplexing System With Analog Transport and Digital Processing for 5G (and Beyond) Fronthaul". In: Journal of Lightwave Technology, vol. 37, no. 14, pp. 3689–3700, July 2019.
DOI: 10.1109/jlt.2019.2918215
- [194] Junfeng Guo and Xin Li and Ying Tang and Lu Zhang and Tao Gao and Shanguo Huang. "An All-Optical Binary Pattern Recognition System Applied in Photonic Firewall based on VPI Simulation". In: 2019 24th OptoElectronics and Communications Conference (OECC) and 2019 International Conference on Photonics in Switching and Computing (PSC), July 2019.
DOI: 10.23919/ps.2019.8817663
- [195] Gazi Mahamud Hasan and Mehedi Hasan and Karin Hinzer and Trevor Hall. "Vector Modulation Scheme using Three Phase Modulator". In: 2019 International Conference on Numerical Simulation of Optoelectronic Devices (NUSOD), July 2019.
DOI: 10.1109/nusod.2019.8806843
- [196] M. Alharbi and A. Alhuseini and A. Ragheb and M. Altamimi and T. Alshawi and S. Alshebeili. "Automatic Modulation Classification: Investigation for Millimeter Wave Over Fiber Channels". In: IEEE Photonics Technology Letters, vol. 31, no. 13, pp. 1092–1095, July 2019.
DOI: 10.1109/1pt.2019.2918924
- [197] Sima Barzegar and Marc Ruiz and Luis Velasco. "Adaptation of the Residual Signal for Filter Failure Detection in Scenarios with Multiple Filter Types". In: 2019 21st International Conference on Transparent Optical Networks (ICTON), July 2019.
DOI: 10.1109/icton.2019.8840016
- [198] T.N. Bakhvalova and D.A. Fofanov and A.V. Alyoshin and M.E. Belkin. "Fiber Distribution Networks with Direct and External Modulation of Digital QAM-Signals". In: 2019 42nd International Conference on Telecommunications and Signal Processing (TSP), July 2019.
DOI: 10.1109/tsp.2019.8768838
- [199] Gazi Mahamud Hasan and Mehedi Hasan and Karin Hinzer and Trevor Hall. "Optical frequency multiplication technique using cascaded modulator to achieve RF power advantage". In: 2019 International Conference on Numerical Simulation of Optoelectronic Devices (NUSOD), July 2019.
DOI: 10.1109/nusod.2019.8806895
- [200] Soren Kreinberg and Igor Koltchanov and Piotr Novik and Saleem Alreesh and Fabian Laudenbach and Christoph Pacher and Hannes Hubel and Andre Richter. "Modelling Weak-Coherent CV-QKD Systems Using

- a Classical Simulation Framework". In: 2019 21st International Conference on Transparent Optical Networks (ICTON), July 2019.
DOI: 10.1109/icton.2019.8840253
- [201] Sylwester Latkowski and Dzmitry Pustakhod and Michail Chatzimichailidis and Xaveer Leijtens and Kevin Williams. "Open Standard Test Framework for Photonic Integrated Circuits". In: 2019 21st International Conference on Transparent Optical Networks (ICTON), July 2019.
DOI: 10.1109/icton.2019.8840336
- [202] Lin Jiang and Lianshan Yan and Anlin Yi and Yan Pan and Min Hao and Wei Pan and Bin Luo. "An effective modulation format identification based on intensity profile features for digital coherent receivers". In: Journal of Lightwave Technology, pp. 1–1, July 2019.
DOI: 10.1109/jlt.2019.2927748
- [203] M. Ziarko and N. Bamiedakis and E. Kumi-Barimah and G. Jose and R. V. Penty and I. H. White. "Erbium-Doped Polymer Waveguide Amplifiers for Board-Level Optical Interconnects". In: 2019 21st International Conference on Transparent Optical Networks (ICTON), July 2019.
DOI: 10.1109/icton.2019.8840529
- [204] Luis Alejandro González Mondragón and Leidy Johana Quintero Rodríguez and Ana Gabriela Correa Mena and Jorge Rodríguez Asomoza and Alejandro García Juárez and Ignacio Enrique Zaldívar Huerta. "Experimental Evaluation of Transmission between Two XBee Modules Using Radio-over-Fiber Technique". In: Advances in Science, Technology and Engineering Systems Journal, vol. 4, no. 4, July 2019.
DOI: 10.25046/aj040415
- [205] Jose A. Altabas and David Izquierdo and Jesus Clemente and Samael Sarmiento and Guillermo Silva Valdecasa and Michele Squartecchia and Lau F. Suhr and Omar Gallardo and Alicia Lopez and M. Angeles Losada and Javier Mateo and Jesper Bevenssee Jensen and Jose A. Lazaro and I. Garces. "Advanced Technologies for Coherent Access Networks". In: 2019 21st International Conference on Transparent Optical Networks (ICTON), July 2019.
DOI: 10.1109/icton.2019.8840371
- [206] Antonio Ferreira and Bruna Dias and Jose Augusto de Oliveira and Andre Alves and Jorge D. Marconi and Gabriel Campuzano and Julian Pita and Ivan Aldaya. "Optimization of OFDM Parameters for 10-Gbps Long Reach Coherent PONs". In: 2019 21st International Conference on Transparent Optical Networks (ICTON), July 2019.
DOI: 10.1109/icton.2019.8840028
- [207] Behnam Shariati and Marc Ruiz and Jaume Comellas and Luis Velasco Esteban. "Feature-Based Optical Spectrum Monitoring for Failure Detection and Identification". In: ICTON, July 2019.
- [208] Alba P. Vela and Marc Ruiz and Luis Velasco. "Autonomous Operations in Optical Networks". In: 2019 21st International Conference on Transparent Optical Networks (ICTON), July 2019.
DOI: 10.1109/icton.2019.8840177
- [209] Olga Vassilieva and Inwoong Kim and Tadashi Ikeuchi. "Optimization of Probabilistically Shaped MQAM for Maximized System Gains". In: 2019 24th OptoElectronics and Communications Conference (OECC) and 2019 International Conference on Photonics in Switching and Computing (PSC), July 2019.
DOI: 10.23919/ps.2019.8817729
- [210] Thiago de Andrade Bragagnolle and Marcelo Pereira Nogueira and Melissa de Oliveira Santos and Afonso Jose do Prado and Andre Alves Ferreira and Eric Alberto de Mello Fagotto and Ivan Aldaya and Marcelo Luis Francisco Abbade. "All-Optical Spectral Shuffling of Signals Traveling through Different Optical Routes". In: 2019 21st International Conference on Transparent Optical Networks (ICTON), July 2019.
DOI: 10.1109/icton.2019.8840243

- [211] Marco Presi and Mario Rannello and Ernesto Ciaramella. "A Coherent Receiver for Analog-over-Fiber Systems Based on Feed-Forward Carrier-Recovery". In: 2019 21st International Conference on Transparent Optical Networks (ICTON), July 2019.
DOI: 10.1109/icton.2019.8840193
- [212] Shaojian Guo and Peng Guo and Aiyang Yang and Yaojun Qiao. "Deep Neural Network Based Chromatic Dispersion Estimation With Ultra-Low Sampling Rate for Optical Fiber Communication Systems". In: IEEE Access, vol. 7, pp. 84155–84162, June 2019.
DOI: 10.1109/access.2019.2923232
- [213] Yan Zhao and Chen Shi and Danshi Wang and Xue Chen and Liqian Wang and Tao Yang and Jinhao Du. "Low-Complexity and Nonlinearity-Tolerant Modulation Format Identification Using Random Forest". In: IEEE Photonics Technology Letters, vol. 31, no. 11, pp. 853–856, June 2019.
DOI: 10.1109/1pt.2019.2910288
- [214] Waddah S. Saif and Tariq Alshawi and Maged Abdullah Esmail and Amr Ragheb and Saleh Alshebeili. "Separability of Histogram Based Features for Optical Performance Monitoring: An Investigation Using t-SNE Technique". In: IEEE Photonics Journal, vol. 11, no. 3, pp. 1–12, June 2019.
DOI: 10.1109/jphot.2019.2913687
- [215] Mingyue Zhu and Jing Zhang and Xiatao Huang and Xingwen Yi and Bo Xu and Kun Qiu. "Influence of EEPN and P2A noise with CD pre- and post-compensation in optical SSB transmission and Kramers-Kronig receiver system". In: Optics Express, vol. 27, no. 14, pp. 19664, June 2019.
DOI: 10.1364/oe.27.019664
- [216] C. Mitsolidou and C. Vagionas and A. Mesodiakaki and P. Maniotis and G. Kalfas and A. Miliou and N. Pleros and C. G. H. Roeloffzen and P. W. L. van Dijk and R. M. Oldenbeuving. "A 5G C-RAN Architecture for Hot-Spots: OFDM based Analog IFoF PHY and MAC Layer Design". In: 2019 European Conference on Networks and Communications (EuCNC), June 2019.
DOI: 10.1109/eucnc.2019.8802037
- [217] Muhammad Usman Hadi and Pier Andrea Traverso and Giovanni Tartarini and Hyun Jung. "Experimental characterization of Sigma Delta Radio over fiber system for 5G C-RAN downlink". In: ICT Express, June 2019.
DOI: 10.1016/j.ictex.2019.06.002
- [218] Yijun Cheng and Songnian Fu and Ming Tang and Deming Liu. "Multi-task deep neural network (MT-DNN) enabled optical performance monitoring from directly detected PDM-QAM signals". In: Optics Express, vol. 27, no. 13, pp. 19062, June 2019.
DOI: 10.1364/oe.27.019062
- [219] Zhengxuan Li and Yun Li and Junjie Ma and Jian Chen and Yingxiang Song and Min Wang. "Projection Histogram-Assisted Estimation of Common Phase Error in Coherent Optical OFDM Systems". In: IEEE Photonics Journal, vol. 11, no. 3, pp. 1–9, June 2019.
DOI: 10.1109/jphot.2019.2921410
- [220] A. Autenrieth and M. Chamania and S. Dris and D. Khomchenko and A. Mittermaier and S. Neidlinger and A. Richter and M. Skorupski and H. Kukkalli. "ONF core information model extension and its application and verification in photonic layer SDN API". In: Photonic Networks; 20th ITG-Symposium, May 2019.
- [221] Andrew Katumba and Xin Yin and Joni Dambre and Peter Bienstman. "A Neuromorphic Silicon Photonics Nonlinear Equalizer For Optical Communications With Intensity Modulation and Direct Detection". In: Journal of Lightwave Technology, vol. 37, no. 10, pp. 2232–2239, May 2019.
DOI: 10.1109/jlt.2019.2900568
- [222] Weile Zhai and Aijun Wen and Dongjuan Shan. "Photonic Generation and Transmission of Frequency-Doubled Triangular and Square Waveforms Based on Two Mach-Zehnder Modulators and a Sagnac Loop". In: Journal of Lightwave Technology, vol. 37, no. 9, pp. 1937–1945, May 2019.

DOI: 10.1109/jlt.2019.2895844

- [223] Yeyu Tong and Chi-Wai Chow and Guan-Hong Chen and Ching-Wei Peng and Chien-Hung Yeh and Hon Ki Tsang. "Integrated Silicon Photonics Remote Radio Frontend (RRF) for Single-Sideband (SSB) Millimeter-Wave Radio-Over-Fiber (ROF) Systems". In: IEEE Photonics Journal, vol. 11, no. 2, pp. 1–8, April 2019.
DOI: 10.1109/jphot.2019.2898938
- [224] Muhammad Waqar and Ajung Kim and Je Joon Yoon. "A Performance Analysis of 5G Fronthaul Networks for Long-Distance Communications". In: 2019 Wireless Days (WD), April 2019.
DOI: 10.1109/wd.2019.8734202
- [225] Jesse Mak and Albert van Rees and Youwen Fan and Edwin J. Klein and Dimitri Geskus and Peter J. M. van der Slot and Klaus.-J. Boller. "Linewidth narrowing via low-loss dielectric waveguide feedback circuits in hybrid integrated frequency comb lasers". In: Optics Express, vol. 27, no. 9, pp. 13307, April 2019.
DOI: 10.1364/oe.27.013307
- [226] Yupeng Li and Jiawei Han and Xiaonan Zhao. "Performance Investigation of a Cost- and Power-Effective High Nonlinearity Tolerance OFDMA-PON Scheme Based on Sub-Nyquist Sampling Rate and DFT-Spread". In: IEEE Access, vol. 7, pp. 43137–43142, April 2019.
DOI: 10.1109/access.2019.2908634
- [227] Ning Jiang and Anke Zhao and Chenpeng Xue and Jianming Tang and Kun Qiu. "Physical Encryption Secure Optical Communications based on Distributed Private Chaos Synchronization". In: Optical Fiber Communication Conference (OFC) 2019, March 2019.
DOI: 10.1364/ofc.2019.th1j.6
- [228] Danshi Wang and Mengyuan Wang and Min Zhang and Zhiguo Zhang and Hui Yang and Jin Li and Jianqiang Li and Xue Chen. "Cost-effective and data size-adaptive OPM at intermediated node using convolutional neural network-based image processor". In: Optics Express, vol. 27, no. 7, pp. 9403, March 2019.
DOI: 10.1364/oe.27.009403
- [229] Shi Wang and Zili Zou and Tiantian Xing and Junhua Wang and Zeng Wang and Fei Jiang. "Research on optical security based on simulated noise induced encryption scheme". In: Journal of Physics: Conference Series, vol. 1176, pp. 062059, March 2019.
DOI: 10.1088/1742-6596/1176/6/062059
- [230] André Richter and Stefanos Dris and Nuno André. "On the analysis and emulation of nonlinear component characteristics". In: Optical Fiber Communication Conference (OFC) 2019, March 2019.
DOI: 10.1364/ofc.2019.th1d.1
- [231] Stefanos Dris and Saleem Alreesh and André Richter. "Blind Polarization Demultiplexing and Equalization of Probabilistically Shaped QAM". In: Optical Fiber Communication Conference (OFC) 2019, March 2019.
DOI: 10.1364/ofc.2019.w1d.2
- [232] Arthur James Lowery and Tianyu Wang and Bill Corcoran. "Clipping-Enhanced Kramers-Kronig Receivers". In: Optical Fiber Communication Conference (OFC) 2019, March 2019.
DOI: 10.1364/ofc.2019.m1h.2
- [233] Behnam Shariati and Marc Ruiz and Luis Velasco. "Out-of-field Generic ML Training with In-field Specific Adaptation to Facilitate ML Deployments". In: Optical Fiber Communication Conference (OFC) 2019, March 2019.
DOI: 10.1364/ofc.2019.tu2e.3
- [234] Inwoong Kim and Olga Vassilieva and Paparao Palacharla and Tadashi Ikeuchi. "Probabilistic Shaping of Set-Partition mQAM". In: Optical Fiber Communication Conference (OFC) 2019, March 2019.
DOI: 10.1364/ofc.2019.w1d.6

- [235] Lin Sun and Jiangbing Du and Ke Xu and Bo Liu and Zuyuan He. "K-means assisted soft decision of PAM4 to mitigate level nonlinearity and level-dependent noise for VCSEL-based 100-Gbps 100-m MMF optical interconnection". In: Optical Fiber Communication Conference (OFC) 2019, March 2019.
DOI: 10.1364/ofc.2019.m1f.5
- [236] Tonghui Ji and Yunfeng Peng and Guojun Zhu. "In-Band OSNR Monitoring From Stokes Parameters Using Support Vector Regression". In: IEEE Photonics Technology Letters, vol. 31, no. 5, pp. 385–388, March 2019.
DOI: 10.1109/1pt.2019.2896033
- [237] Yongtao Huang and Yuanxiang Chen and Kaile Li and Yitong Li and Jie Ma and Jianguo Yu. "Multi Scrolls Chaotic Encryption for Physical Layer Security in CO-OFDM". In: Optical Fiber Communication Conference (OFC) 2019, March 2019.
DOI: 10.1364/ofc.2019.th1j.8
- [238] Lu Zhang and Xin Li and Tao Gao and Ying Tang and Yongjun Zhang and Shanguo Huang. "Optical Signal-to-Noise Ratio Prediction using Neural Networks for Multicast Light-Trees in Optical Networks". In: Optical Fiber Communication Conference (OFC) 2019, March 2019.
DOI: 10.1364/ofc.2019.w2a.20
- [239] Mohammed I. Al-Rayif and Hussein Seleem and Amr Ragheb and Saleh Alshebeili. "A Novel Iterative-SLM Algorithm for PAPR Reduction in 5G Mobile Fronthaul Architecture". In: IEEE Photonics Journal, vol. 11, no. 1, pp. 1–12, February 2019.
DOI: 10.1109/jphot.2019.2894986
- [240] Zhao Zhao and Aiyang Yang and Peng Guo and Wenyu Tang. "A Modulation Format Identification Method Based on Amplitude Deviation Analysis of Received Optical Communication Signal". In: IEEE Photonics Journal, vol. 11, no. 1, pp. 1–7, February 2019.
DOI: 10.1109/jphot.2019.2893658
- [241] F. Halabi and L. Chen and R.P. Giddings and A. Hamié and Y. Dumas and P. Freyssinet and C. Aupetit-Berthelemot and J.M. Tang. "Subcarrier index-power modulated optical OFDM with dual superposition multiplexing for IMDD PON systems". In: Optics Communications, vol. 433, pp. 190–194, February 2019.
DOI: 10.1016/j.optcom.2018.10.017
- [242] Gilad Katz and Eduard Sonkin. "Level Optimization of PAM-4 Transmission With Signal-Dependent Noise". In: IEEE Photonics Journal, vol. 11, no. 1, pp. 1–6, February 2019.
DOI: 10.1109/jphot.2018.2887112
- [243] Xiang Gao and Yuancheng Cai and Bo Xu and Xiaoling Zhang and Kun Qiu. "Multi-Twin-SSB Modulation with Direct Detection Based on Kramers–Kronig Scheme for Long-Reach PON Downstream". In: Applied Sciences, vol. 9, no. 4, pp. 748, February 2019.
DOI: 10.3390/app9040748
- [244] De Chao Ban and Qing Chao Huang and Yin Fang Chen and Yi Chao Qi and Wei Chen and Ning Hua Zhu. "A Novel Optical Frequency-Hopping Scheme Based on a Flexible Structure for Secure Optical Communications". In: IEEE Photonics Journal, vol. 11, no. 1, pp. 1–7, February 2019.
DOI: 10.1109/jphot.2019.2895353
- [245] B. Tshibangu-Mbuebue and L. A. Gonzalez-Mondragon and L. J. Quintero-Rodriguez and R. Rojas-Laguna and I. E. Zaldivar-Huerta. "Experimental demonstration of transmission of High Definition Television signal using a microwave photonic notch filter". In: 2019 International Conference on Electronics, Communications and Computers (CONIELECOMP), February 2019.
DOI: 10.1109/conielecomp.2019.8673199

- [246] Mehul Anghan and Rashmi Kamran and Nihir Gulati and Nandakumar Nambath and Shalabh Gupta. "Adaptive Polarization Control for Coherent Optical Links with Polarization Multiplexed Carrier". In: 2019 National Conference on Communications (NCC), February 2019.
DOI: 10.1109/ncc.2019.8732190
- [247] Ruiqi Zheng and Erwin H. W. Chan and Xudong Wang and Xinhuan Feng and Bai-ou Guan. "Broadband high dynamic range fiber optic link based on a dual-polarization modulator". In: Optics Express, vol. 27, no. 4, pp. 4734, February 2019.
DOI: 10.1364/oe.27.004734
- [248] Ruiqi Zheng and Erwin H. W. Chan and Xudong Wang and Xinhuan Feng and Bai-Ou Guan. "Linearized Single Sideband Modulation Link With High SFDR Performance". In: IEEE Photonics Technology Letters, vol. 31, no. 4, pp. 299–302, February 2019.
DOI: 10.1109/1pt.2019.2892653
- [249] Yupeng Li and Jiawei Han and Xiaonan Zhao. "Performance Investigation of DFT-Spread OFDM Signal for Short Reach Communication Systems Beyond NG-PON2". In: IEEE Access, vol. 7, pp. 27426–27431, February 2019.
DOI: 10.1109/access.2019.2901526
- [250] Md. Rafeeun Noby Babir and Shamsul Arefeen Al Mahmud and Tasnim Mostary. "Efficient M-QAM Digital Radio over Fiber System for Vehicular ad-hoc Network". In: 2019 International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST), January 2019.
DOI: 10.1109/icrest.2019.8644099
- [251] Morad Khosravi Eghbal and Mehdi Shadaram. "Expandable high-capacity wavelength division multiplex-over-optical code division multiple access millimeter wave radio-over-fiber system". In: Optical Engineering, vol. 58, no. 01, pp. 1, January 2019.
DOI: 10.1117/1.oe.58.1.016118
- [252] Danshi Wang and Min Zhang and Zhiguo Zhang and Jin Li and Hui Gao and Fan Zhang and Xue Chen. "Machine Learning-Based Multifunctional Optical Spectrum Analysis Technique". In: IEEE Access, vol. 7, pp. 19726–19737, January 2019.
DOI: 10.1109/access.2019.2895409
- [253] Younus Nidham Ali Mandalawi and Syamsuri Yaakob and Wan Azizun Wan Adnan and Mohd Hanif Yaacob and Zuraidah Zan. "Laser phase noise effect and reduction in self-homodyne optical OFDM transmission system". In: Optics Letters, vol. 44, no. 2, pp. 307, January 2019.
DOI: 10.1364/ol.44.000307

2018

- [254] Xiaoyu Zhang and Ruiying He and Yongfeng Wei and Tianwei Jiang and Xinlu Gao. "A Novel Microwave Photonic Mixer with Tunable Phase Shift Based on External Modulators". In: 2018 IEEE 3rd International Conference on Communication and Information Systems (ICCIS), December 2018.
DOI: 10.1109/icomis.2018.8644892
- [255] Morad Khossravi Eghbal and Mehdi Shadaram. "Photonic generation and detection of W-band OCDMA signals". In: Journal of Advanced Optics and Photonics, vol. 1, no. 3, pp. 173–201, December 2018.
DOI: 10.32604/jaop.2018.04323
- [256] Yiwen Ma and Peng Guo and Aiyang Yang and Lingwei Zhuang and Shaojian Guo and Yueming Lu and Yaojun Qiao. "Training Sequence-Based Chromatic Dispersion Estimation With Ultra-Low Sampling Rate for Optical Fiber Communication Systems". In: IEEE Photonics Journal, vol. 10, no. 6, pp. 1–9, December 2018.
DOI: 10.1109/jphot.2018.2880832
- [257] Inwoong Kim and Olga Vassilieva and Youichi Akasaka and Papparao Palacharla and Tadashi Ikeuchi. "Enhanced Spectral Inversion for Fiber Nonlinearity Mitigation". In: IEEE Photonics Technology Letters, vol. 30, no. 23, pp. 2040–2043, December 2018.
DOI: 10.1109/lpt.2018.2875595
- [258] Chong Han and Jiajian Zhang and Chen Guo and Lijun Cao. "Cross Phase Modulation Model Based on Volterra Series Transfer Function in Hybrid Coherent QPSK/OOK Systems". In: IEICE Electronics Express, December 2018.
DOI: 10.1587/elex.15.20180453
- [259] Yixian Dong and Roger Philip Giddings and Jianming Tang. "Hybrid OFDM-Digital Filter Multiple Access PONs". In: Journal of Lightwave Technology, vol. 36, no. 23, pp. 5640–5649, December 2018.
DOI: 10.1109/jlt.2018.2877840
- [260] Liqaa A. AL-Hashemi and Sinan M. Abdul Satar and Ghaida A. Al-Suhail. "An Effective Combining Transformer to Relieve Fiber Nonlinearity in CO-OFDM System". In: 2018 Third Scientific Conference of Electrical Engineering (SCEE), December 2018.
DOI: 10.1109/scee.2018.8684035
- [261] Wenjia Zhang and Chenyu Liang and Zuyuan He. "Multimode optical interconnects based on VCSEL and MMF for more than 100-Gb/s/lane and 100m transmission". In: Semiconductor Lasers and Applications VIII, November 2018.
DOI: 10.1117/12.2500306
- [262] Marcelo Luis Francisco Abbade and Leonardo Diogo Bueno Bobadilla and Daniel Orquiza de Carvalho and Andre Alves Ferreira and Luiz Henrique Bonani and Ivan Aldaya. "All-Optical Encryption Using Multi-Channel Spectral Shuffling". In: IEEE Photonics Technology Letters, pp. 1–1, November 2018.
DOI: 10.1109/lpt.2018.2884477
- [263] Weicheng Xia and Ruiqi Zheng and Bijuan Chen and Erwin Chan and Xudong Wang and Xinhuan Feng and Bai-Ou Guan. "Ripple Suppression in Broadband Microwave Photonic Phase Shifter Frequency Response". In: Applied Sciences, vol. 8, no. 12, pp. 2433, November 2018.
DOI: 10.3390/app8122433
- [264] Zhirong Chen and Xiaojie Guo and Xuelei Fu and Chester Shu and Zhaohui Li. "Investigation of Four-Wave-Mixing Crosstalk in Phase-Sensitive Fiber Optical Parametric Amplifier". In: Journal of Lightwave Technology, vol. 36, no. 22, pp. 5113–5120, November 2018.
DOI: 10.1109/jlt.2018.2869788

- [265] Yueying Zhan and Yuebing Zhu and Shaojun Wu. "All-Optical Physical-Layer Network Coding based on Four Wave Mixing in Semiconductor Optical Amplifier". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8596021
- [266] Conghui Zhang and Xinjing Qiu and Xiaoyu Zhang and Yongfeng Wei and Xinlu Gao. "A Novel Photonic Phase Shifter Based on Polarization Controller and Dual-parallel Mach-Zehender Modulator". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8595890
- [267] Lei Zhang and Tao Yang and Huan Chen and Haoyuan Pan and Xue Chen. "A Modified Timing Synchronization Method for OFDM Systems". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8595758
- [268] Xin Qin and Chuanchuan Yang and Ziyu Wang. "Eigenvector Basis Expansion-Based Phase Noise Suppression Method for Coherent Nyquist-WDM-PON". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8595874
- [269] Chenyu Liang and Wenjia Zhang and Ling Ge and Zuyuan He. "Mode partition noise mitigation for VCSEL-MMF links by using wavefront shaping technique". In: Optics Express, vol. 26, no. 22, pp. 28641, October 2018.
DOI: 10.1364/oe.26.028641
- [270] Maria Freire and Sebastien Mansfeld and Djamel Amar and Franck Gillet and Antoine Lavignotte and Catherine Lepers. "Predicting Optical Power Excursions in Erbium Doped Fiber Amplifiers using Neural Networks". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8596233
- [271] Ziyi Wang and Aiyang Yang and Peng Guo and Lihui Feng and Pinjing He. "CNN based OSNR estimation method for long haul optical fiber communication systems". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8596136
- [272] Xiang Gao and Bo Xu and Yuancheng Cai and Mingyue Zhu and Jing Zhang and Kun Qiu. "Frequency-Shifted Modulation using a Single DDMZM and Kramers-Kronig Scheme based Direct Detection Receiver in Long-Reach PON". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8595988
- [273] Yue Liu and Chuanchuan Yang and Cheng Zhang and Anzhong Liang and Zheng Gao and Hongbin Li. "Non-Orthogonal Basis Expansion Based Phase Noise Suppression Method for CO-OFDM System". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8596225
- [274] Yiwen Ma and Peng Guo and Aiyang Yang and Yueming Lu and Yaojun Qiao. "Analytical Analysis of Residual Chromatic Dispersion and Self-Phase Modulation Optimal Compensation in the Fractional Domain". In: IEEE Access, vol. 6, pp. 61529-61534, October 2018.
DOI: 10.1109/access.2018.2875831
- [275] Yuancheng Cai and Xiang Gao and Yun Ling and Bo Xu and Kun Qiu. "Mitigation of SSBI based on Kramers-Kronig receiver in SSB-OFDM-RoF system". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8596078
- [276] Xi Fang and Zhufeng Suo and Jianxin Wang and Lei Zhang and Xianwei Gao. "Five Loaded Preambles Based Channel Estimation Method for CO-OFDM/OQAM Systems". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8596188

- [277] Xi Fang and Zhufeng Suo and Cheng Zhao and Lei Zhang and Jianxin Wang and Xianwei Gao. "Analysis of the Designing of the Pilot Preambles Based on the Using of Different Prototype Filter for CO-OFDM/OQAM Systems". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8595858
- [278] Xi Fang and Yueyang Yu and Cheng Zhao and Lei Zhang and Jianxin Wang and Xianwei Gao. "Pesudo Pilot Power Optimization Based Pilot Design Criterion for Optical OFDM/OQAM". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8595936
- [279] Xi Fang and Yueyang Yu and Cheng Zhao and Lei Zhang and Jianxin Wang and Xianwei Gao. "Poly Phase Network for Polarization-Division-Multiplexed Optical OFDM/OQAM". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8596152
- [280] Mingxuan Jiang and Yixiao Zhu and Fan Zhang. "Comparison of Coherent and Direct Detection Schemes for 400G Data Center Interconnection and Metro Networks". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8596312
- [281] Xiaojie Fan and Yulai Xie and Fang Ren and Yiyang Zhang and Xiaoshan Huang and Wei Chen and Tianwen Zhangsun and Jianping Wang. "Joint Optical Performance Monitoring and Modulation Format/Bit-Rate Identification by CNN-Based Multi-Task Learning". In: IEEE Photonics Journal, vol. 10, no. 5, pp. 1–12, October 2018.
DOI: 10.1109/jphot.2018.2869972
- [282] Yating Xiang and Ming Tang and Qiong Wu and Huibin Zhou and Bo Yong and Songnian Fu and Deming Liu. "A Joint OSNR and Nonlinear Distortions Estimation Method for Optical Fiber Transmission System". In: IEEE Photonics Journal, vol. 10, no. 5, pp. 1–11, October 2018.
DOI: 10.1109/jphot.2018.2873778
- [283] T. Sutili and P. Rocha and Ernesto M. M. Barrientos and A. C. Bordonalli and C. M. Gallego and E. Conforti. "Computational Model and Parameter Extraction of High Speed Semiconductor Optical Amplifier Space Switches". In: Journal of Microwaves, Optoelectronics and Electromagnetic Applications, vol. 17, no. 4, pp. 646–660, October 2018.
DOI: 10.1590/2179-10742018v17i41404
- [284] Yongtao Huang and Yuanxiang Chen and Jianguo Yu. "Gaussian Wavelet Basis Expansion-Based Phase Noise Suppression Method for CO-OFDM Systems". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8595749
- [285] Le Xia and Jing Zhang and Yingxiong Song and Qianwu Zhang and Xiang Li and Kun Qiu. "Physical Layer Abstraction Utilizing OSNR Monitoring Based on Deep Neural Network". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8596119
- [286] Yuanxiang Chen and Yongtao Huang and Jianguo Yu. "Multi-impairment Compensation by Machine-Learning based Clustering for Optical 16QAM-SCFDE Transmission". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8595760
- [287] Liqaa AbdulSattar AL-Hashemi and Ghaida A. Al-Suhail and Sinan M. Abdul Satar and Ali N. Kareem and Mohammed A. Hussein. "An ICI Reduction Based on PAPR Clipping in Coherent Optical OFDM System". In: 2018 International Conference on Advanced Science and Engineering (ICOASE), October 2018.
DOI: 10.1109/icoase.2018.8548855

- [288] Yanpeng Xu and Jianfei Liu and Siyang Liu and Xiangye Zeng and Jia Lu. "A Novel Timing Synchronization Algorithm for CO-OFDM systems". In: 2018 Asia Communications and Photonics Conference (ACP), October 2018.
DOI: 10.1109/acp.2018.8596209
- [289] Maria G. Ayala and Maria J. Beltran and Maria S. Jimenez and German V. Arevalo and Daniel Cardenas. "Comparative Analysis of Optical Filters for NG Optical Networks". In: 2018 IEEE Third Ecuador Technical Chapters Meeting (ETCM), October 2018.
DOI: 10.1109/etcm.2018.8580334
- [290] Conghui Zhang and Xinjing Qiu and Yongfeng Wei and Xinlu Gao. "Frequency-Quadrupled Microwave Signal Generation with Tunable Phase Shift Employing No Optical Filter". In: 2018 IEEE 3rd Optoelectronics Global Conference (OGC), September 2018.
DOI: 10.1109/ogc.2018.8529901
- [291] Conghui Zhang and Ruiying He and Xiaoyu Zhang and Yongfeng Wei. "Photonic Generation of Millimeter-Wave Signals With Frequency-Multiplying and Tunable Phase Shift". In: 2018 4th International Conference on Frontiers of Signal Processing (ICFSP), September 2018.
DOI: 10.1109/icfsp.2018.8552069
- [292] Zexi Zhao and Mengfan Cheng and Chenkun Luo and Lei Deng and Minming Zhang and Songnian Fu and Ming Tang and Ping Shum and Deming Liu. "Synchronized random bit sequences generation based on analog-digital hybrid electro-optic chaotic sources". In: Journal of Lightwave Technology, pp. 1–1, September 2018.
DOI: 10.1109/jlt.2018.2868498
- [293] Wei Jiang and Shanghong Zhao and Qinggui Tan and Xiaojun Li and Dong Liang and Wenrui Zhang. "A Multi-Carrier Signals Generation Based on DPMZM In Parallel for THz Communication system". In: 2018 43rd International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), September 2018.
DOI: 10.1109/irmmw-thz.2018.8510213
- [294] Elias Giacomidis and Amol Choudhary and Eric Magi and David Marpaung and Khu Vu and Pan Ma and Duk-Yong Choi and Steve Madden and Bill Corcoran and Mark Pelusi and Benjamin J. Eggleton. "Chip-based Brillouin processing for carrier recovery in self-coherent optical communications". In: Optica, vol. 5, no. 10, pp. 1191, September 2018.
DOI: 10.1364/optica.5.001191
- [295] Ruiying He and Xiaoyu Zhang and Yikun Zhao and Caili Gong and Kai Sun and Yongfeng Wei. "A Broadband Microwave Photonic Mixer with the Capability of Phase Shifting". In: 2018 IEEE 3rd Optoelectronics Global Conference (OGC), September 2018.
DOI: 10.1109/ogc.2018.8529946
- [296] Guoyao Chen and Jiangbing Du and Lin Sun and Lifang Zheng and Ke Xu and Hon Ki Tsang and Xia Chen and Graham T. Reed and Zuyuan He. "Machine Learning Adaptive Receiver for PAM-4 Modulated Optical Interconnection Based on Silicon Microring Modulator". In: Journal of Lightwave Technology, vol. 36, no. 18, pp. 4106–4113, September 2018.
DOI: 10.1109/jlt.2018.2861710
- [297] Mohammad A. Z. Al-Khateeb and Mary E. McCarthy and Christian Sánchez and Andrew D. Ellis. "Nonlinearity compensation using optical phase conjugation deployed in discretely amplified transmission systems". In: Optics Express, vol. 26, no. 18, pp. 23945, August 2018.
DOI: 10.1364/oe.26.023945
- [298] Ziyi Wang and Aiyang Yang and Peng Guo and Pinjing He. "OSNR and nonlinear noise power estimation for optical fiber communication systems using LSTM based deep learning technique". In: Optics Express, vol. 26, no. 16, pp. 21346, August 2018.
DOI: 10.1364/oe.26.021346

- [299] Feilong Wu and Aiyang Yang and Peng Guo and Yaojun Qiao and Lingwei Zhuang and Shaojian Guo. "QPSK Training Sequence-Based Both OSNR and Chromatic Dispersion Monitoring in DWDM Systems". In: IEEE Photonics Journal, vol. 10, no. 4, pp. 1–10, August 2018.
DOI: 10.1109/jphot.2018.2859428
- [300] Abdul Rahim and Amin Abbasi and Mahmoud Shahin and Nuno Sequeira André and André Richter and Joris Van Kerrebrouck and Kasper Van Gasse and Andrew Katumba and Bart Moeneclaey and Xin Yin and Geert Morthier and Roel Baets and Gunther Roelkens. "50 Gb/s DMT and 120 Mb/s LTE signal transmission over 5 km of optical fiber using a silicon photonics transceiver". In: Advanced Photonics 2018 (BGPP, IPR, NP, NOMA, Sensors, Networks, SPCom, SOF), July 2018.
DOI: 10.1364/iprsn.2018.iw1b.4
- [301] Danshi Wang and Min Zhang and Jin Li and Yu Xin and Jianqiang Li and Mengyuan Wang and Xue Chen. "Intelligent Optical Spectrum Analyzer Using Support Vector Machine". In: 2018 IEEE Photonics Society Summer Topical Meeting Series (SUM), July 2018.
DOI: 10.1109/phosst.2018.8456793
- [302] David Kobor and Eszter Udvary. "Optimization of Power Budget in RSOA Based Mm-wave Radio-over-Fibre Access Network". In: 2018 11th International Symposium on Communication Systems, Networks & Digital Signal Processing (CSNDSP), July 2018.
DOI: 10.1109/csndsp.2018.8471816
- [303] Behnam Shariati and Marc Ruiz and J. Comellas and Luis Velasco. "Learning from the Optical Spectrum: Failure Detection and Identification [Invited]". In: Journal of Lightwave Technology, pp. 1–1, July 2018.
DOI: 10.1109/jlt.2018.2859199
- [304] Di Li and Quan Yu and Lei Deng and Liang Huo and Songnian Fu and Ming Tang and Mengfan Cheng and Minming Zhang and Deming Liu. "Bidirectional long-reach PON using Kramers-Kronig-based receiver for Rayleigh Backscattering noise and SSBI interference elimination". In: Optics Express, vol. 26, no. 15, pp. 19020, July 2018.
DOI: 10.1364/oe.26.019020
- [305] Liang-Yu Wei and Chi-Wai Chow and Chin-Wei Hsu and Chien-Hung Yeh. "Bidirectional Visible Light Communication System Using a Single VCSEL With Predistortion to Enhance the Upstream Remodulation". In: IEEE Photonics Journal, vol. 10, no. 3, pp. 1–7, June 2018.
DOI: 10.1109/jphot.2018.2829516
- [306] Chenyu Liang and Wenjia Zhang and Zuyuan He. "Opto-Electrical Hybrid Equalization for VCSEL-MMF Based Links". In: 2018 IEEE Optical Interconnects Conference (OI), pp. 41–42, June 2018.
DOI: 10.1109/oic.2018.8422044
- [307] Yung Hsu and Chun-Yen Chuang and Xinru Wu and Guan-Hong Chen and Chin-Wei Hsu and Yuan-Chia Chang and Chi-Wai Chow and Jyehong Chen and Yin-Chieh Lai and Chien-Hung Yeh and Hon Ki Tsang. "2.6 Tbit/s On-Chip Optical Interconnect Supporting Mode-Division-Multiplexing and PAM-4 Signal". In: IEEE Photonics Technology Letters, vol. 30, no. 11, pp. 1052–1055, June 2018.
DOI: 10.1109/lpt.2018.2829508
- [308] Ming Hao and Lianshan Yan and Anlin Yi and Lin Jiang and Yan Pan and Wei Pan and Bin Luo. "Stokes Space Modulation Format Identification for Optical Signals Using Probabilistic Neural Network". In: IEEE Photonics Journal, vol. 10, no. 3, pp. 1–13, June 2018.
DOI: 10.1109/jphot.2018.2836151
- [309] Ivan Aldaya and Carolina Del-Valle-Soto and Gabriel Campuzano and Elias Giacomidis and Rafael González and Gerardo Castañón. "Photonic millimeter-wave bridge for multi-Gbps passive optical networks". In: Physical Communication, vol. 28, pp. 138–146, June 2018.
DOI: 10.1016/j.phycom.2018.04.001

- [310] B. Shariati and A. P. Vela and M. Ruiz and L. Velasco. "Monitoring and Data Analytics: Analyzing the Optical Spectrum for Soft-Failure Detection and Identification". In: ONDM - Conference on Optical Network Design and Modelling, May 2018.
- [311] Vastias Kostalampros and Konstantinos Maragos George Lentaris and Dimitrios Soudris and Christos Spatharakis and Nikos Argyris and Hercules Avramopoulos and Stefanos Dris and Andre Richter. "Carrier Phase Recovery of 64 GBd Optical 16-QAM Using Extensive Parallelization on an FPGA". In: 2018 IEEE International Symposium on Circuits and Systems (ISCAS), May 2018.
DOI: 10.1109/iscas.2018.8351581
- [312] Andrew Katumba and Matthias Freiburger and Floris Laporte and Alessio Lugnan and Stijn Sackesyn and Chonghuai Ma and Joni Dambre and Peter Bienstman. "Neuromorphic Computing Based on Silicon Photonics and Reservoir Computing". In: IEEE Journal of Selected Topics in Quantum Electronics, vol. 24, no. 6, pp. 1–10, April 2018.
DOI: 10.1109/jstqe.2018.2821843
- [313] Qiulin Zhang and Chester Shu. "Kramers-Kronig Detection of Polarization Multiplexing Signals by a Single-Ended Photodiode". In: Optical Fiber Communication Conference, March 2018.
DOI: 10.1364/ofc.2018.w2a.55
- [314] Igor Koltchanov and Stefanos Dris and Alexander Uvarov and André Richter. "Requirements for simulation-aided design of SDM systems". In: Optical Fiber Communication Conference, March 2018.
DOI: 10.1364/ofc.2018.m4b.6
- [315] V. Kostalampros and C. Spatharakis and K. Maragos and G. Lentaris and N. Argyris and S. Dris and A. Richter and H. Avramopoulos and D. Soudris. "Real-Time Carrier Phase Recovery for 16-QAM Utilizing the Nonlinear Least Squares Algorithm". In: Optical Fiber Communication Conference, March 2018.
DOI: 10.1364/ofc.2018.w2a.49
- [316] Luis Velasco and Behnam Shariati and Alba P. Vela and Jaume Comellas and Marc Ruiz. "Learning from the Optical Spectrum: Soft-Failure Identification and Localization [Invited]". In: Optical Fiber Communication Conference, March 2018.
DOI: 10.1364/ofc.2018.w1g.1
- [317] Benjamin Foo and Bill Corcoran and Arthur J. Lowery. "Distributed Nonlinear Compensation Using Optoelectronic Circuits". In: Journal of Lightwave Technology, vol. 36, no. 6, pp. 1326–1339, March 2018.
DOI: 10.1109/jlt.2017.2779747
- [318] A. Polatynski and D. de Felipe and H. Conradi and M. Kresse and A. Richter and S. Mingaleev and E. Sokolov and M. Kleinert and C. Zawadzki and N. Keil. "Virtual prototyping of complex photonic components and integrated circuits for polymer-based integration platform". In: Smart Photonic and Optoelectronic Integrated Circuits XX, February 2018.
DOI: 10.1117/12.2290436
- [319] Jokhakar Jignesh and Arthur Lowery and Bill Corcoran. "Inter-channel nonlinear phase noise compensation using optical injection locking". In: Optics Express, vol. 26, no. 5, pp. 5733, February 2018.
DOI: 10.1364/oe.26.005733
- [320] Chi-Wai Chow and Hao-Yu Wang and Chao-Hsuan Chen and Hsiao-Wen Zan and Chien-Hung Yeh and Hsin-Fei Meng. "Pre-Distortion Scheme to Enhance the Transmission Performance of Organic Photo-Detector (OPD) Based Visible Light Communication (VLC)". In: IEEE Access, vol. 6, pp. 7625–7630, February 2018.
DOI: 10.1109/access.2018.2805226
- [321] Paraskevas Bakopoulos and Konstantinos Christodouloupoulos and Giada Landi and Muzzamil Aziz and Eitan Zahavi and Domenico Gallico and Richard Pitwon and Konstantinos Tokas and Ioannis Patronas and Marco Capitani and Christos Spatharakis and Konstantinos Yiannopoulos and Kai Wang and

- Konstantinos Kontodimas and Ioannis Lazarou and Philipp Wieder and Dionysios I. Reisis and Emmanouel Manos Varvarigos and Matteo Biancani and Hercules Avramopoulos. "NEPHELE: An End-to-End Scalable and Dynamically Reconfigurable Optical Architecture for Application-Aware SDN Cloud Data Centers". In: IEEE Communications Magazine, vol. 56, no. 2, pp. 178–188, February 2018.
DOI: 10.1109/mcom.2018.1600804
- [322] Mohammad A. Z. Al-Khateeb and Md. Asif Iqbal and Mingming Tan and Abdallah Ali and Mary McCarthy and Paul Harper and Andrew D. Ellis. "Analysis of the nonlinear Kerr effects in optical transmission systems that deploy optical phase conjugation". In: Optics Express, vol. 26, no. 3, pp. 3145, January 2018.
DOI: 10.1364/oe.26.003145
- [323] L. J. Quintero-Rodríguez and Min Won Lee and A. G. Correa-Mena and I. E. Zaldívar-Huerta. "Simulation of the Brillouin effect in an optical feedback". In: Frontiers in Optics / Laser Science, January 2018.
DOI: 10.1364/fio.2018.jtu2a.84
- [324] Morad Khosravi Eghbal and Mehdi Shadaram. "W-band radio-over-fiber propagation of two optically encoded wavelength channels". In: Optical Engineering, vol. 57, no. 01, pp. 1, January 2018.
DOI: 10.1117/1.oe.57.1.016104
- [325] Dmitry Khomchenko and Dmitry Yevseyenko and Jim Farina and André Richter. "Automated design of add/drop equipment and effective wavelength assignment in complex DWDM networks". In: Metro and Data Center Optical Networks and Short-Reach Links, January 2018.
DOI: 10.1117/12.2290357
- [326] Stefano Porto and Daniel Carey and Nicola Brandonisio and Alan Naughton and Cleitus Antony and Peter Ossieur and Nick Parsons and Giuseppe Talli and Paul D. Townsend. "Point-to-point overlay of a 100Gb/s DP-QPSK channel in LR-PONs for urban and rural areas". In: Optics Express, vol. 26, no. 3, pp. 3303, January 2018.
DOI: 10.1364/oe.26.003303
- [327] Fadil Paloi and Shyqyri Haxha and Taimur N Mirza and Mohammed Shah Alom. "Microwave Photonic Downconversion With Improved Conversion Efficiency and SFDR". In: IEEE Access, vol. 6, pp. 8089–8097, January 2018.
DOI: 10.1109/access.2018.2797087
- [328] Luc M. Augustin and Rui Santos and Erik den Haan and Steven Kleijn and Peter J. A. Thijs and Sylwester Latkowski and Dan Zhao and Weiming Yao and Jeroen Bolk and Huub Ambrosius and Sergei Mingaleev and Andre Richter and Arjen Bakker and Twan Korthorst. "InP-Based Generic Foundry Platform for Photonic Integrated Circuits". In: Journal of Selected Topics in Quantum Electronics, vol. 24, no. 1, pp. 1–10, January 2018.
DOI: 10.1109/jstqe.2017.2720967
- [329] Xizi Tang and Ji Zhou and Mengqi Guo and Jia Qi and Fan Hu and Yaojun Qiao and Yueming Lu. "40-Gb/s PAM4 with low-complexity equalizers for next-generation PON systems". In: Optical Fiber Technology, vol. 40, pp. 108–113, January 2018.
DOI: 10.1016/j.yofte.2017.11.015

2017

- [330] Youwen Fan and Rob E. M. Lammerink and Jesse Mak and Ruud M. Oldenbeuving and Peter J. M. van der Slot and Klaus-J. Boller. "Spectral linewidth analysis of semiconductor hybrid lasers with feedback from an external waveguide resonator circuit". In: *Optics Express*, vol. 25, no. 26, pp. 32767, December 2017.
DOI: 10.1364/oe.25.032767
- [331] H. N. Parajuli and E. Udvary. "Novel Vestigial Sideband Modulation Scheme to Enhance the SNR in Radio Over Fiber Systems". In: *Radioengineering*, vol. 26, no. 4, pp. 961–967, December 2017.
DOI: 10.13164/re.2017.0961
- [332] Sandis Spolitis and Inna Kurbatska and Vjaceslavs Bobrovs. "Comparison of C-band and L-band WDM-PON systems performance with PAM-4 modulation format". In: *2017 International Workshop on Fiber Optics in Access Network (FOAN)*, November 2017.
DOI: 10.1109/foan.2017.8215251
- [333] Xiang Lin and Yahia A. Eldemerdash and Octavia A. Dobre and Shu Zhang and Cheng Li. "Modulation Classification Using Received Signal's Amplitude Distribution for Coherent Receivers". In: *IEEE Photonics Technology Letters*, vol. 29, no. 21, pp. 1872–1875, November 2017.
DOI: 10.1109/lpt.2017.2754501
- [334] Xingxing Jiang and Mengfan Cheng and Chenkun Luo and Fengguang Luo and Lei Deng and Songnian Fu and Changjian Ke and Minming Zhang and Ming Tang and Ping Shum and Deming Liu. "Reproducible optical noise-like signal generation subjected by digital sequences". In: *Optics Express*, vol. 25, no. 23, pp. 29189, November 2017.
DOI: 10.1364/oe.25.029189
- [335] Yu Tian and Juhao Li and Yingchao Xin and Zhongying Wu and Paikun Zhu and Yongqi He and Zhangyuan Chen. "Impact and mitigation of XT-induced time-synchronization errors in MDM transmission systems through a minimized residual inter-block-interference (MRI) algorithm". In: *Optics Express*, vol. 25, no. 23, pp. 28794, November 2017.
DOI: 10.1364/oe.25.028794
- [336] Jinbo Xiao and Aijun Wen and Huixing Zhang and Wu Zhang and Yongsheng Gao and Mei Chen. "Generation of Triangular-Shaped Waveform With Frequency Doubling". In: *IEEE Photonics Technology Letters*, vol. 29, no. 19, pp. 1599–1602, October 2017.
DOI: 10.1109/lpt.2017.2735481
- [337] M. E. Belkin and T. N. Bakhvalova and I. V. Gladyshev and O. N. Egorova and S. L. Semenov. "Continuously accessible long-term fiber optic memory of microwave signal". In: *2017 International Topical Meeting on Microwave Photonics (MWP)*, October 2017.
DOI: 10.1109/mwp.2017.8168695
- [338] Danshi Wang and Min Zhang and Ze Li and Jin Li and Meixia Fu and Yue Cui and Xue Chen. "Modulation Format Recognition and OSNR Estimation Using CNN-Based Deep Learning". In: *IEEE Photonics Technology Letters*, vol. 29, no. 19, pp. 1667–1670, October 2017.
DOI: 10.1109/lpt.2017.2742553
- [339] Abdul Rahim and Bahawal Haq and Muhammad Muneeb and Antonio Ribeiro and Roel Baets and Wim Bogaerts. "16x25 GHz Optical OFDM Demultiplexer in a 220nm Silicon Photonics Platform using a Parallel-Serial Filter Approach". In: *2017 European Conference on Optical Communication (ECOC)*, September 2017.
DOI: 10.1109/ecoc.2017.8346141

- [340] Abdul Nasser A. Abbood and H. S. Al-Raweshidy. "Reduction of bandwidth requirement in DRoF systems using optical duobinary modulation". In: 2017 9th Computer Science and Electronic Engineering (CEECE), September 2017.
DOI: 10.1109/ceec.2017.8101610
- [341] Xingyuan Xu and Jiayang Wu and Mehrdad Shoeiby and Thach G. Nguyen and Sai T. Chu and Brent E. Little and Roberto Morandotti and Arnan Mitchell and David J. Moss. "Reconfigurable broadband microwave photonic intensity differentiator based on an integrated optical frequency comb source". In: APL Photonics, vol. 2, no. 9, pp. 096104, September 2017.
DOI: 10.1063/1.4989871
- [342] H. Zhou and M. Tang and X. Chen and Z. Feng and Q. Wu and S. Fu and D. Liu. "Fractal Dimension Aided Modulation Formats Identification Based on Support Vector Machines". In: ECOC, September 2017.
- [343] T. Zhang and C. Sanchez and I. Phillips and S. Sygletos and A. Ellis. "200-Gb/s Polarization Multiplexed Doubly Differential QPSK Signal Transmission over 80-km SSMF Using Tandem SSB without Optical Amplification". In: ECOC, September 2017.
- [344] Md. Rafeeun Noby Babir and Pallab K. Choudhury. "On the performance of high order QAM signals for analog and digital radio over fiber systems". In: 2017 4th International Conference on Advances in Electrical Engineering (ICAEE), September 2017.
DOI: 10.1109/icaee.2017.8255385
- [345] A. Richter and H. Louchet and S. Dris. "Overcoming the Impact of Nonlinear Interference Noise Correlation on FEC Performance". In: ECOC, September 2017.
- [346] S. Bilal and K. Goroshko and H. Louchet and I. Koltchanov and A. Richter. "Unrepeated transmission of 28Gbaud PM-16QAM over 420km enabled by digital nonlinear precompensation". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [347] Z. Li and M. Zhang and D. Xie and D. Wang and Y. Cui and Q. Yang. "LCoS-based Programmable Spectrum Cutter with Programmable and Reconfigurable Filtering Shape for Software Defined Optical Network". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [348] J. Du and L. Sun and G. Chen and Z. He. "Machine Learning Assisted Optical Interconnection". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [349] Z. Xu and C. Yang and Z. Tan. "Linearly Interpolation-based Almost Blind Phase Noise Suppression Method for CO-OFDM Systems". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [350] B. Lin and X. Tang and Y. Li and S. Zhang and Z. Ghassemlooy. "Dual-Polarization OFDM/OQAM-PON with Efficient Channel Equalization Methods". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [351] A. Ali and C. Costa and M. Al-Khateeb and F. Ferreira and A. Ellis. "Four-Wave Mixing in Optical Phase Conjugation System with Pre-Dispersion". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [352] Q. Zhang and B. Zheng and C. Shu. "Mitigation of Kerr-induced Nonlinear Distortion by Superimposing the Sidebands of a Multiband-CAP Signal". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [353] M. Zhu and J. Zhang and X. Yi and S. Hu and Y. Song and B. Xu and N. Jiang and K. Qiu. "Hilbert Superposition Based on Direct-Detection for Single Side-Band Optical NPAM-4 Signal". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [354] J. Xiao and J. Li and C. Yin and Y. Fan and F. Yin and Y. Dai and K. Xu. "Numerical Study on Microwave Photonic Mixers Based on Electro-Optical Modulators". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [355] S. Dris and H. Louchet and A. Richter. "Analysis of Nonlinear Interference Noise in Flexible Optical Networks". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.

- [356] L. Zhang and L. Mingche and P. Zhengbin and X. Liquan and X. Weixia and X. Shi and L. Renfa. "100GBaud Optical Transceiver. An Optical Time Division Multiplexing Solution". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [357] P. Zhang and L. Xi and J. Yuan and X. Tang and X. Zhang. "An In-Band OSNR Monitoring Technique for PM-Nyquist-WDM Coherent System in Presence of Fiber Nonlinearities". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [358] X. Zhang and C. Zhang and C. Chen and W. Jin and K. Qiu. "A cost-effective and concurrent all-optical VPN in digital filter multiple access PON systems". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [359] T. Zhang and C. Sanchez and A. Ali and A. Ellis. "Nonamplified 100Gbps Doubly Differential QPSK Optical Signal Transmission Over 80 km SSMF Without Carrier Recovery". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [360] L. Sun and J. Du and G. Chen and Z. He and X. Chen and G. Reed. "Machine-learning detector based on Support Vector Machine for 122-Gbps Multi-CAP optical communication system". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [361] S. Lin and H. Tsao and S. Lee. "A Novel Method for PAM-4 Signal Quality Estimation Using Asynchronous Eye Diagram Reconstruction". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [362] J. Radil and P. Münster and T. Horváth and O. Havliš and P. Škoda and J. Vojtšch. "Sensoric and Data Applications in National Research and Educational Networks". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [363] C. Mididoddi and G. Wang and L. Su and C. Wang. "Photonic Time-Stretch Optical Coherence Tomography with Data Compression and Improved Resolution". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [364] V. Rozental and B. Foo and B. Corcoran and A. Lowery. "Cyclic-Spectrum Pulse Shaping for Increased Nonlinear Tolerance". In: OECC, CLEO-PR, Photonics Global Conference, August 2017.
- [365] M. Eghbal and F. Aminian and M. Shadaram. "Effect of Different Optical Codes on a W-Band WDM-over-OCMA System". In: ICTON, no. Tu.D2.1, July 2017.
- [366] P. Torres-Ferrera and R. Gutiérrez-Castrejón and I. Tomkos. "Multi-Format 800 - 1600 Gb/s Coherent Transceiver for Inter-Data Centre Interconnects over SMF". In: ICTON, no. Tu.A3.5, July 2017.
- [367] K. Goroshko and H. Louchet and A. Richter. "Prediction of Accumulated DGD Evolution for PMD-Resistant Digital Back Propagation". In: ICTON, no. Tu.P.8, July 2017.
- [368] J. Marconi and M. Abbade and E. Fagotto and C. Serpa-Imbett and P. Neto and I. Aldaya. "Network Performance of Optical Parametric Amplifiers Based on Tellurite Waveguides". In: ICTON, no. We.C5.3, July 2017.
- [369] Jorge Diego Marconi and Marcelo Luis Francisco Abbade and Eric Alberto de Mello Fagotto and Claudia M. Serpa-Imbett and Pedro Ferreira Pinto Neto and Ivan Aldaya. "Network performance of optical parametric amplifiers based on tellurite waveguides". In: 2017 19th International Conference on Transparent Optical Networks (ICTON), July 2017.
DOI: 10.1109/icton.2017.8025048
- [370] Guijun Zhu and Xiukai Ruan and Zhili Zhou. "Dispersion characteristics and compensation in the POLMUX coherent optical communication system". In: Modern Physics Letters B, vol. 31, no. 19-21, pp. 1740054, July 2017.
DOI: 10.1142/s0217984917400541
- [371] C. Mitsolidou and N. Pleros and A. Miliou. "All-Optical Digital Physical-Layer Network Coding for DPSK mm-wave Radio-Over-Fiber Networks". In: ICTON, no. Th.B2.3, July 2017.

- [372] R. Oliveira and E. Silva and U. Costa and R. Ferreira and A. Shahpari and J. Costa and A. Teixeira. "Coexistence of TWDM-PON and Multi RF/IF Over Fiber System: Experimental Demonstration". In: ICTON, no. We.A2.5, July 2017.
- [373] A. Uvarov and N. Karelin and I. Koltchanov and A. Richter and H. Louchet and G. Shkred. "GPU-Assisted Simulations of SDM Systems". In: ICTON, no. We.D1.6, July 2017.
- [374] A. Maity and A. Mishra. "Impact of Optical Parameters on Nonlinearity Measurement of Bend Insensitive Fiber". In: ICTON, no. We.P.10, July 2017.
- [375] V. Vgenopoulou and N. Raptis and E. Grivas and I. Tomkos. "Designing the Next Generation of Intra-and Inter-Datacentres Interconnects". In: ICTON, no. Tu.A3.4, July 2017.
- [376] Paikun Zhu and Juhao Li and Hui Zhao and Yu Tian and Yuanxiang Chen and Zhongying Wu and Zhangyuan Chen and Yongqi He. "An Iterative Frequency Offset Estimation Method for Coherent Optical OFDM System". In: IEEE Photonics Technology Letters, vol. 29, no. 11, pp. 877–880, June 2017.
DOI: 10.1109/1pt.2017.2693378
- [377] Georgios Kyritsis and Nick Zakhleniuk. "Performance of Widely Tunable Multi-Quantum-Well and Bulk Laser Diodes and the Main Limiting Factors". In: IEEE Journal of Quantum Electronics, vol. 53, no. 3, pp. 1–16, June 2017.
DOI: 10.1109/jqe.2017.2682700
- [378] Yao Ye and Lei Deng and Shichao Chen and Mengfan Cheng and Ming Tang and Songnian Fu and Minming Zhang and Di Zhang and Benxiong Huang and Deming Liu. "Simultaneous Suppression of Even-Order and Third-Order Distortions in Directly Modulated Analog Photonic Links". In: IEEE Photonics Journal, vol. 9, no. 3, pp. 1–12, June 2017.
DOI: 10.1109/jphot.2017.2700048
- [379] Noridah Mohd Ridzuan and Maisara Othman and Marliana Jaafar and Mohammad Faiz Liew Abdullah. "Comparison of Cap and QAM-DMT Modulation Format for In-Home Network Environment". In: Journal of Telecommunications, Electronic and Computer Engineering, vol. 9, no. 3-2, June 2017.
- [380] M. Hinrichs and L. F. del Rosal and C. Kottke and V. Jungnickel. "Analog vs. next-generation digital fronthaul: How to minimize optical bandwidth utilization". In: ONDM - International Conference on Optical Network Design and Modeling, pp. 1–6, May 2017.
- [381] Onur Duzgol and Georgios Kyritsis and Nick Zakhleniuk. "Travelling-wave modelling of the modulation dynamic performance of wavelength-tunable laser diodes using the integrated VPI and PICS3D software". In: IET Optoelectronics, vol. 11, no. 2, pp. 66–72, April 2017.
DOI: 10.1049/iet-opt.2016.0067
- [382] A. Polatynski and S. Mingaleev and A. Marinins and D. Felipe and M. Kleinert and M. Kresse and C. Zawadzki and N. Keil and A. Richter. "Novel MxN three-dimensional MMI simulation model". In: ECIO, April 2017.
- [383] Z. Geng and B. Corcoran and A. Boes and A. Mitchell and L. Zhuang and Y. Xie and A. Lowery. "Mitigation of Electrical Bandwidth Limitations using Optical Pre-Sampling". In: OFC, no. M2J.6, March 2017.
- [384] A. Rahim and A. Abbasi and N. André and A. Katumba and H. Louchet and K. Gasse and R. Baets and G. Morthier and G. Roelkens. "69 Gb/s DMT direct modulation of a Heterogeneously Integrated InP-on-Si DFB Laser". In: OFC, no. Th1B.5, March 2017.
- [385] J. Navarro and A. Kakkar and R. Schatz and X. Pang and O. Ozolins and F. Nordwall and H. Louchet and S. Popov and G. Jacobsen. "High Performance and Low Complexity Carrier Phase Recovery Schemes for 64-QAM Coherent Optical Systems". In: OFC, no. W2A.53, March 2017.

- [386] Fabrice Mfuamba Kabonzo and Muhammad Umar Dilshad. "Impact of radio over fiber technology for integrated 5G front and back-haul applications". In: 2017 IEEE 2nd Advanced Information Technology, Electronic and Automation Control Conference (IAEAC), March 2017.
DOI: 10.1109/iaeac.2017.8054179
- [387] Puspa Devi Pukhrambam and San Liang Lee and Gerd Keiser. "Electro-absorption Modulated Lasers with High Immunity to Residual Facet Reflection by Using Lasers with Partially Corrugated Gratings". In: IEEE Photonics Journal, pp. 1–1, March 2017.
DOI: 10.1109/jphot.2017.2669264
- [388] X. Jiang and M. Cheng and F. Luo and L. Deng and C. Ke and S. Fu and M. Tang and M. Zhang and P. Shum and D. Liu. "Reproducible Broadband Optical Noise Generation Based on Phase Modulation to Intensity Modulation Conversion and a Nonlinear Transformation". In: OFC, no. Th2A.49, March 2017.
- [389] S. Bilal and K. Goroshko and H. Louchet and I. Koltchanov and A. Richter. "Nonlinearities tolerant modulation format enabled Tb/s superchannel transmission over 420 km of unrepeated Raman amplified link". In: Optical Fiber Technology, vol. 36, pp. 306-311, February 2017.
- [390] Ankita Jain and Pradeep Kumar Krishnamurthy and Pascal Landais and Prince M. Anandarajah. "EKF for Joint Mitigation of Phase Noise, Frequency Offset and Nonlinearity in 400 Gb/s PM-16-QAM and 200 Gb/s PM-QPSK Systems". In: IEEE Photonics Journal, vol. 9, no. 1, pp. 1–10, February 2017.
DOI: 10.1109/jphot.2017.2649223
- [391] Maki Nanou and Christina Politi and Alexandros Stavdas and Kristina Georgoulakis and George-Othon Glentis. "High-Speed, High-Performance DQPSK Optical Links with Reduced Complexity VDFE Equalizers". In: Photonics, vol. 4, no. 4, pp. 13, February 2017.
DOI: 10.3390/photonics4010013
- [392] Andrés F. Betancur-Pérez and Juan F. Botero-Cadavid and Erick Reyes-Vera and Nelson Gómez-Cardona. "Hexagonal Photonic Crystal Fiber Behaviour as a Chromatic Dispersion Compensator of a 40 Gbps Link". In: International Journal of Electronics and Telecommunications, vol. 63, no. 1, January 2017.
DOI: 10.1515/elete1-2017-0013

2016

- [393] H. Zhou and X. Li and M. Tang and Q. Wu and X. Chen and M. Luo and S. Fu and D. Liu. "Joint timing/frequency offset estimation and correction based on FrFT encoded training symbols for PDM CO-OFDM systems". In: Optics Express, vol. 24, no. 25, pp. 28256-28269, December 2016.
- [394] X. Jiang and M. Cheng and F. Luo and L. Deng and S. Fu and C. Ke and M. Zhang and M. Tang and P. Shum and D. Liu. "Electro-optic chaotic system based on the reverse-time chaos theory and a nonlinear hybrid feedback loop". In: Optics Express, vol. 24, no. 25, pp. 28804-28814, December 2016.
- [395] João Gonçalves and Celestino S. Martins and Fernando P. Guiomar and Telmo R. Cunha and José C. Pedro and Armando N. Pinto and Pedro M. Lavrador. "Nonlinear compensation with DBP aided by a memory polynomial". In: Optics Express, vol. 24, no. 26, pp. 30309, December 2016.
DOI: 10.1364/oe.24.030309
- [396] K. Yan and X. Zhou and W. Liu and J. Huo. "PDM-DD-SSB-OFDM system based on a single-end PD for short reach communications". In: ACP, no. AF2A.96, November 2016.
- [397] M. Al-Khateeb and M. McCarthy and C. Sanchez and A. Ellis. "Mid-Link Optical Phase Conjugation in Lumped Optical Transmission Systems". In: ACP, no. AS2B.5, November 2016.
- [398] C. Li and Z. Xu and Q. Yang and S. Yu. "Transmitter IQ Mismatch Compensation Based on Second Order Moment Estimation for Coherent Optical M-QAM System". In: ACP, no. AF4B.1, November 2016.
- [399] Y. Xin and Y. Tian and B. Hua and H. Yan and J. Li and P. Zhu and Y. He and Z. Chen. "Mode-Interleaving Method with Improved Transmission Reach for MDL-Impaired MDM Systems". In: ACP, no. AF2A.99, November 2016.
- [400] D. Uzunidis and C. Matrakidis and A. Stavdas. "Application of a simplified FWM expression in mixed-fiber links". In: 2016 24th Telecommunications Forum (TELFOR), November 2016.
DOI: 10.1109/teIfor.2016.7818939
- [401] D. Uzunidis and C. Matrakidis and A. Stavdas. "Simplified FWM model for flexible-grid optical systems". In: 2016 24th Telecommunications Forum (TELFOR), November 2016.
DOI: 10.1109/teIfor.2016.7818938
- [402] D. Uzunidis and C. Matrakidis and A. Stavdas. "Comparison of simplified FWM expressions for coherent optical systems in both dispersion managed and un-managed fiber links". In: PCI - Pan-Hellenic Conference on Informatics, no. 46, November 2016.
- [403] D. Uzunidis and C. Matrakidis and A. Stavdas. "Optimizing power, capacity, transmission reach and amplifier placement in coherent optical systems using a physical layer model". In: PCI - Pan-Hellenic Conference on Informatics, no. 47, November 2016.
- [404] S. Bilal and K. Goroshko and H. Louchet and I. Koltchanov and A. Richter. "Unrepeated Raman-amplified transmission of 28 Gbaud PM-16QAM over 300 km enabled by digital nonlinear pre-compensation". In: ACP, no. AF3D.6, November 2016.
- [405] J. Lai and R. Tang and B. Wu and S. Li and X. Zhao and X. Tang and W. Zhao and H. Zhang. "Research on optical performance monitoring (OPM) in coherent transmission system". In: ACP, no. AS2B.2, November 2016.
- [406] Z. Xu and Z. Tan and C. Yang. "Research on performances of coherent Nyquist-WDM-PON and WDM-OFDM-PON using effective phase noise suppression methods". In: ACP, no. AF2A.102, November 2016.
- [407] M. Zhang and B. Xu and Q. Guo and K. Qiu. "Study and Comparison of Low Cost Intensity Modulation Direct Detection Radio Over Fiber Systems". In: ACP, no. AF2A.86, November 2016.

- [408] Y. Zhang and L. Li and Y. Shi and L. Jiang. "Investigation of Multiple Impairments Monitor based on RF Spectrum Analysis". In: ACP, no. AF2A.108, November 2016.
- [409] M. Faruk and H. Louchet and S. Savory. "Robust Single Polarization Coherent Transceiver Using DGD Pre-distortion for Optical Access Networks". In: ACP, no. AF1C.2, November 2016.
- [410] J. Chen and H. Yang and B. Luo and L. Yan and H. Xing. "A Flexible and Cost-effective Optical Access Scheme based upon DSP-assisted Block-IFDMA". In: ACP, no. AF2A.152, November 2016.
- [411] B. Foo and B. Corcoran and C. Zhu and A. Lowery. "Distributed Nonlinearity Compensation of Dual-Polarization Signals Using Optoelectronics". In: IEEE Photonics Technology Letters, vol. 28, no. 20, pp. 2141-2144, October 2016.
- [412] C. Mitsolidou and C. Vagionas and K. Ramantas and D. Tsiokos and A. Miliou and N. Pleros. "Digital Optical Physical-Layer Network Coding for mm-Wave Radio-Over-Fiber Signals in Fiber-Wireless Networks". In: Journal of Lightwave Technology, vol. 34, no. 20, pp. 4765-4771, October 2016.
- [413] Tamas Cseh and Gabor Fekete and Tibor Berceli and Eszter Udvarý and Ali Kabalan and Wosen Kassa and Carlos Viana and Anne-Laure Billabert and Salim Faci and Jean-Luc Polleux and Catherine Algani. "Improvements on broadband signals in radio over fiber systems by mode filtering". In: 2016 46th European Microwave Conference (EuMC), October 2016.
DOI: 10.1109/eumc.2016.7824502
- [414] I. Aboagye and F. Chen and Y. Cao. "Performance Analysis of 112 Gb/s*4-Channel WDM PDM-DQPSK Optical Label Switching System With Spectral Amplitude Code Labels". In: Photonic Sensors, October 2016.
- [415] Z. Xu and Z. Tan and C. Yang. "Sliding Window Aided Phase Noise Suppression Method for Coherent Nyquist-WDM-PON". In: IEEE Photonics Technology Letters, vol. 28, no. 20, pp. 2229-2232, October 2016.
- [416] P. Munster and J. Vojtech and T. Horvath and O. Havlis and M. Slapak and P. Skoda and J. Radil and M. Hula and R. Velc. "Coexistence of Access and Backbone Networks with Sensor Systems". In: FOAN - International Workshop on Fiber Optics in Access Network, October 2016.
- [417] J. Torres and An. Soto and N. Gonzalez. "Enhanced intercarrier interference mitigation based on encoded bit-sequence distribution inside optical superchannels". In: Optical Engineering, vol. 55, no. 10, pp. 106124, October 2016.
- [418] M. Faruk and H. Louchet and M. Erkilinc and S. Savory. "DSP algorithms for recovering single-carrier Alamouti coded signals for PON applications". In: Optics Express, vol. 24, no. 21, pp. 24083-24091, October 2016.
- [419] Y. Xie and L. Zhuang and C. Zhu and A. Lowery. "Nyquist pulse shaping using arrayed waveguide grating routers". In: Optics Express, vol. 24, no. 20, pp. 22357-22365, October 2016.
- [420] B. Lin and X. Fang and X. Tang and C. Lin and Y. Li and S. Zhang and Y. Wu and H. Li. "Efficient frequency-domain channel equalization methods for dual-polarization orthogonal frequency-division multiplexing/offset quadrature amplitude modulation-passive optical network". In: Optical Engineering, vol. 55, no. 10, pp. 106108, October 2016.
- [421] O. Duzgol and G. Kyritsis and N. Zakhleniuk. "Enhanced Dynamic Response and Spectral Characteristics Improvement of Optically-Injected Widely-Tunable Laser Diodes". In: ISLC - International Semiconductor Laser Conference, no. WE19, September 2016.
- [422] P. Pukhrambam and S. Lee. "Highly Residual Facet Reflection Immune Electro-absorption Modulated Laser with Short Partially Corrugated Gratings". In: ISLC - International Semiconductor Laser Conference, no. WE21, September 2016.

- [423] Georgios Kyritsis and Onur Duzgol and Nick Zakhleniuk. "Power and Wavelength Tuning Performance of Multi-Quantum-Well and Bulk Tunable Laser Diodes and Main Limiting Factors". In: ISLC - International Semiconductor Laser Conference, September 2016.
- [424] L. Huang and P. Wang and P. Xiang and D. Chen and Y. Zhang and J. Tao and T. Pu and X. Chen. "Photonic Generation of Microwave Frequency Shift Keying Signals". In: IEEE Photonics Technology Letters, vol. 28, no. 18, pp. 1928-1931, September 2016.
- [425] Y. Xie and C. Zhu and B. Song and A. Lowery. "Sidelobe Suppression using Cancellation Sub-Carriers for OFDM Superchannels". In: ECOC, no. 773, September 2016.
- [426] J. Marconi and M. Abbade and C. Serpa-Imbett and J. Cordoba-Ramirez and E. Fagotto. "Broadband two-pump parametric amplifier in engineered dispersion tellurite waveguides". In: LAOP - OSA Latin America Optics & Photonics Conference, no. LTu4A.11, August 2016.
- [427] P. Li and X. Yi and X. Liu and D. Zhao and Y. Zhao and Y. Wang. "All-optical analog comparator". In: Scientific Reports, vol. 6, no. 31903, August 2016.
- [428] J. Martinez and J. Torres and A. Soto and N. Gonzalez. "Inter-Channel Interference Characterization in a Nyquist-WDM gridless scenario with Nonlinear Impairments Compensation by using Digital Backpropagation". In: LAOP - OSA Latin America Optics & Photonics Conference, no. LTu2C.4, August 2016.
- [429] E. Fernandez and J. Torres and A. Soto and N. Gonzalez. "Linear Carrier Predistortion for Inter-Carrier Interference Mitigation in SCM-RoF Systems". In: LAOP - OSA Latin America Optics & Photonics Conference, no. LW4C.4, August 2016.
- [430] M. Tala and M. Castellari and M. Balboni and D. Bertozzi. "Populating and Exploring the Design Space of Wavelength-Routed Optical Network-on-Chip Topologies by Leveraging the Add-Drop Filtering Primitive". In: NOCS - IEEE/ACM International Symposium on Networks-on-Chip, August 2016.
- [431] Mehedi Hasan and De Gui Sun and Peng Liu and Trevor J. Hall. "Towards a universal RF photonic integrated circuit architecture for microwave applications". In: 2016 Progress in Electromagnetic Research Symposium (PIERS), August 2016.
DOI: 10.1109/piers.2016.7734251
- [432] J. Torres and A. Soto and N. Gonzalez. "Inter-Carrier Interference Mitigation based on FEC-encoded sequence distribution". In: LAOP - OSA Latin America Optics & Photonics Conference, no. LTu2C.2, August 2016.
- [433] Y. Tian and J. Li and P. Zhu and Z. Wu and Y. Chen and Y. He and Z. Chen. "Quantification of MDL-induced signal degradation in MIMO-OFDM mode-division multiplexing systems". In: Optics Express, vol. 24, no. 17, pp. 18948-18959, August 2016.
- [434] L. Zong and . "Spectrum Allocation Strategy in Flex-Grid Optical Networks: Signal Transmission Performance Analysis". In: Journal of Optical Communications and Networking, vol. 8, no. 7, pp. A191-A200, July 2016.
- [435] D. Tsiokos and C. Mitsolidou and C. Vagionas and G. Kalfas and A. Miliou and N. Pleros. "Converged Optical-Wireless Access Networks Enabling Fixed and 60 GHz Connectivity in WDM-PONs". In: ICTON, no. Th.A3.3, July 2016.
- [436] M. Eghbal and M. Shadaram. "Tandem-Modulator Generated W-Band OCDMA Radio-over-Fiber System". In: ICTON, no. We.D2.3, July 2016.
- [437] A. Latunde and M. Milosavljevic and P. Kourtessis and J. Senior. "OQAM-OFDM RoF with IM-DD Remote Heterodyne 28 GHz Upconversion for 5G Millimeter RANs". In: ICTON, no. We.D2.2, July 2016.
- [438] X. Gong and L. Guo and J. Wu. "Performance investigation for LDPC-coded upstream transmission systems in IM/DD OFDM-PONs". In: OECC/PS - OptoElectronics and Communications Conference & Photonics in Switching, no. ThA3-5, July 2016.

- [439] G. Charalambous and G. Hasanuzzaman and A. Perentos and S. Iezekiel. "Optoelectronic Oscillator Based on Class AB Photonic Link". In: ICTON, no. Mo.B5.4, July 2016.
- [440] H. Parajuli and E. Udvary. "A Vestigial Sideband Modulation Scheme in Radio Over Fiber System Using Electro-Optic Modulators". In: ICTON, no. Tu.P.6, July 2016.
- [441] J. Jignesh and B. Corcoran and A. Lowery. "Parallelized unscented Kalman filters for carrier recovery in coherent optical communication". In: Optics Letters, vol. 41, no. 14, pp. 3253-3256, July 2016.
- [442] W. Zhang and C. Zhang and W. Jin and K. Qiu and C. Chen. "Hybrid Time-Frequency Domain Chaotic Interleaving for Physical-Layer Security Enhancement in OFDM-PON Systems". In: ICC - IEEE/CIC International Conference on Communications in China, July 2016.
- [443] B. Feris and P. Gravey and M. Moulinard and P. Morel and M. Morvan and A. Sharaiha. "Pulse Amplitude Modulation Applied to Extended Passive Optical Pod Interconnect, for Small Energy-Aware Data Centers". In: ICTON, no. Th.B5.6, July 2016.
- [444] S. Gaiarin and F. DaRos and M. Sorensen and D. Zibar. "Tolerance of Continuous NFT Spectrum to Optical Fiber Channel Impairments". In: SPPcom, no. SpM3E.5, July 2016.
- [445] K. Goroshko and H. Louchet and A. Richter. "Overcoming Performance Limitations of Digital Back Propagation due to Polarization Mode Dispersion". In: ICTON, no. Mo.B1.4, July 2016.
- [446] J. He and L. Deng and L. Shi and M. Cheng and M. Tang and S. Fu and M. Zhang and D. Liu and P. Shum. "Mitigation of optical beat interference in N-dimensional CAP-PON uplink transmission". In: OECC/PS - OptoElectronics and Communications Conference & Photonics in Switching, no. 2.2, July 2016.
- [447] M. Olmedo and X. Pang and R. Schatz and O. Ozolins and H. Louchet and D. Zibar and G. Jacobsen and I. Monroy and S. Popov. "Effective Linewidth of Semiconductor Lasers for Coherent Optical Data Links". In: Photonics, vol. 3, no. 2, pp. 10, June 2016.
- [448] A. Adjaye and C. Fushen and C. Yongsheng. "Performance Analysis of 112 Gb/s PDM-DQPSK Optical System with Frequency Swept Coherent Detected Spectral Amplitude Labels". In: WCE - World Congress on Engineering, June 2016.
- [449] X. Li and J. Li and Z. Li. "Performance analysis of the dual-parallel polarization modulator based optical single-sideband modulator / frequency shifter". In: Optical Engineering, vol. 55, no. 6, pp. 066116, June 2016.
- [450] J. Navarro and A. Kakkar and X. Pang and O. Ozolins and R. Schatz and M. Olmedo and G. Jacobsen and S. Popov. "Carrier Phase Recovery Algorithms for Coherent Optical Circular mQAM Systems". In: Journal of Lightwave Technology, vol. 34, no. 11, June 2016.
- [451] J. Navarro and A. Kakkar and X. Pang and M. Olmedo and O. Ozolins and F. DaRos and M. Piels and R. Schatz and D. Zibar and G. Jacobsen and S. Popov. "Two-Stage n-PSK Partitioning Carrier Phase Recovery Scheme for Circular mQAM Coherent Optical Systems". In: Photonics, vol. 3, no. 2, pp. 11, June 2016.
- [452] R. Asif. "Advanced and flexible multi-carrier receiver architecture for high-count multi-core fiber based space division multiplexed applications". In: Scientific Reports, vol. 6, no. 27465, June 2016.
- [453] Petr Munster and Josef Vojtech and Tomas Horvath and Ondrej Havlis and Pavel Hanak and Milan Cucka and Miloslav Filka. "Simultaneous transmission of distributed sensors and data signals". In: 2016 39th International Conference on Telecommunications and Signal Processing (TSP), June 2016.
DOI: 10.1109/tsp.2016.7760987
- [454] H. Sarafraz and M. Sayeh. "Analysis on optical bistability parameters in photonic switching devices". In: Optical Engineering, vol. 55, no. 6, pp. 066119, June 2016.

- [455] J. He and B. Li and L. Deng and M. Tang and L. Gan and S. Fu and P. Shum and D. Liu. "Experimental investigation of inter-core crosstalk tolerance of MIMO-OFDM/OQAM radio over multicore fiber system". In: *Optics Express*, vol. 24, no. 12, pp. 13418-13428, June 2016.
- [456] S. Mingaleev and S. Savitski and E. Sokolov and I. Koltchanov and A. Richter. "Layout-Aware Schematic-Driven Design Methodology for Photonic Integrated Circuits". In: *ECIO*, May 2016.
- [457] N. Andre and H. Louchet and V. Filsinger and E. Hansen and A. Richter. "OFDM and PAM comparison using a high baudrate low resolution IM/DD interface for 400G Ethernet access". In: *Optics Express*, vol. 24, no. 11, pp. 11926-11931, May 2016.
- [458] M. Ratwani and R. Kamran and N. Nambath and S. Gupta. "Analog Domain Decision Feedback Equalizer for Repeater-Less DP-QPSK Coherent Optical Links". In: *WOCC - Wireless and Optical Communication Conference*, May 2016.
- [459] I. Tamilarasan and B. Saminathan and M. Murugappana. "Impairment assessment of orthogonal frequency division multiplexing over dispersion-managed links in backbone and backhaul networks". In: *Optical Engineering*, vol. 55, no. 4, pp. 046105, April 2016.
- [460] A. Ellis and M. Al Khateeb and M. McCarthy. "Impact of Optical Phase Conjugation on the Nonlinear Shannon Limit". In: *OFC*, no. Th4F.2, March 2016.
- [461] A. Lowery and . "Enhanced Asymmetrically Clipped Optical ODFM for High Spectral Efficiency and Sensitivity". In: *OFC*, no. Th2A.30, March 2016.
- [462] C. Mitsolidou and C. Vagionas and D. Tsiokos and K. Ramantas and A. Miliou and N. Pleros. "All-Optical Digital Network Coding for Very High-Throughput mm-wave Fiber-Wireless Networks". In: *OFC*, no. Th2A.14, March 2016.
- [463] X. Jiang and D. Liu and M. Cheng and L. Deng and S. Fu and M. Zhang and M. Tang and P. Shum. "High-frequency reverse-time chaos generation using an optical matched filter". In: *Optics Letters*, vol. 41, no. 6, pp. 1157-1160, March 2016.
- [464] M. Leong and K. Larsen and G. Jacobsen and D. Zibar and S. Sergeyev and S. Popov. "BCH Codes for Coherent Star DQAM Systems with Laser Phase Noise". In: *Journal of Optical Communications*, March 2016.
- [465] H. Louchet and A. Richter. "Performance Estimation of Digital Coherent Systems with FEC under non-AWGN Channel Statistics". In: *OFC*, no. M2A.1, March 2016.
- [466] A. Kakkar and O. Ozolins and J. Navarro and X. Pang and M. Olmedo and R. Schatz and H. Louchet and G. Jacobsen and S. Popov. "Design of Coherent Optical Systems Impaired by EEPN". In: *OFC*, no. Tu2A.2, March 2016.
- [467] J. Jignesh and B. Corcoran and C. Zhu and A. Lowery. "Unscented Kalman Filters for Polarization State Tracking and Phase Noise Mitigation". In: *OFC*, no. Tu2A.4, March 2016.
- [468] S. Dris and P. Bakopoulos and N. Argyris and C. Spatharakis and H. Avramopoulos. "Scaling single-wavelength optical interconnects to 180 Gb/s with PAM-M and pulse shaping". In: *Next-Generation Optical Networks for Data Centers and Short-Reach Links*, no. 977506, March 2016.
- [469] A. Abbasi and C. Spatharakis and G. Kanakis and N. S. Andre and H. Louchet and A. Katumba and J. Verbist and X. Yin and J. Bauwelinck and H. Avramopoulos and G. Roelkens and G. Morthier. "PAM-4 and Duobinary Direct Modulation of a Hybrid InP/SOI DFB Laser for 40 Gb/s Transmission over 2 km Single Mode Fiber". In: *OFC*, no. M2C.6, March 2016.
- [470] Y. Xie and L. Zhuang and . Zhu and A. Lowery. "Nyquist-WDM Channel Generation using an Arrayed Waveguide Grating Router". In: *OFC*, no. W2A.37, March 2016.

- [471] Z. Xia and S. Cui and C. Ke and S. Fu and M. Tang and D. Liu. "Fast and Robust Chromatic dispersion Estimation for Digital Optical Coherent Receivers". In: OFC, no. Th2A.52, March 2016.
- [472] A. Al-Bermani. "Improved Pilot-Tone Technique for Inter- and Intra-Channel Nonlinearity Compensation in Long-haul CO-OFDM Systems". In: Photonics West, February 2016.
- [473] E. Rodriguez-Colina and M. Pascoe-Chalke and M. Lopez-Guerrero. "Performance Trade-Offs for Wavelength Striping Optical Switching Using a Novel Star Architecture". In: Advances in Optical Technologies, vol. 2016, pp. 12, January 2016.
- [474] S. Al-Awis and A. Fattah. "Empirical Modelling Technique for Physical Layer Impairments Penalty Measurement in Optical WDM Systems". In: International Journal of Applied Engineering Research, vol. 11, no. 20, pp. 10192-10198, January 2016.

2015

- [475] A. Kakkar and J. Navarro and R. Schatz and H. Louchet and X. Pang and O. Ozolins and G. Jacobsen and S. Popov. "Comprehensive Study of Equalization-Enhanced Phase Noise in Coherent Optical Systems". In: *Journal of Lightwave Technology*, vol. 33, no. 23, pp. 4834-4841, December 2015.
- [476] N. Andre and H. Louchet and V. Filsinger and E. Hansen and A. Richter. "Experimental 32Gbaud OFDM transmission using a 3-bit DAC". In: *ACP*, no. ASu1E.1, November 2015.
- [477] J. Zhang and Q. Wu and C. Qian and B. Cao and Z. Xue and H. Dun and Q. Zhang. "An Optimized Full-parallel Variable-length FFT Design for Software-defined Optical OFDM Receivers". In: *ACP*, no. ASu1E.4, November 2015.
- [478] P. Torres-Ferrera and S. Vazquez and R. Gutierrez-Castrejon. "4x100 Gb/s WDM DD-OFDM using EAM for next generation Ethernet transceivers over SMF". In: *Optics Communications*, vol. 365, pp. 86-92, November 2015.
- [479] K. Goroshko and H. Louchet and A. Richter. "Fundamental Limitations of Digital Back Propagation due to Polarization Mode Dispersion". In: *ACP*, no. ASu3F.5, November 2015.
- [480] Y. Tian and J. Li and Y. Xin and P. Zhu and Y. Chen and Z. Wu and F. Ren and Y. He and Z. Li and Z. Chen. "An Efficient Equalization Method with Improved Modal Dispersion Tolerance for CO-SCFDE FMF Transmission". In: *ACP*, no. AS4F.1, November 2015.
- [481] T. Gui and Z. Dong and C. Lu and A. Lau. "The Impact of Receiver IQ Imbalance on Multi-soliton NFDM Transmissions with OOK Modulation". In: *ACP*, no. ASu3F.3, November 2015.
- [482] F. Li and M. Zhang and D. Wang. "Design and Implementation of Blind Equalization Algorithm for Multiband CAP Modulation in High Speed and High Spectral Efficiency Optical Data Link". In: *ACP*, no. AM3E.4, November 2015.
- [483] Y. Li and Y. Yu and Z. Xu and C. Yu and P. Kam. "Demonstration of Optical Signal to Noise Ratio Monitoring Based on Sagnac Interferometer in Polarization Division Multiplexed Systems". In: *ACP*, no. AS4F.7, November 2015.
- [484] Z. Feng and L. Zhang and M. Tang and S. Gao and C. Chan and S. Fu and Q. Wu and B. Li and R. Wang and R. Lin and P. Shum and D. Liu. "Training Symbol Assisted Optical Signal-to-Noise Ratio Monitoring Technique for DDO-OFDM Systems". In: *ACP*, no. ASu2A.84, November 2015.
- [485] Z. Xian and H. Jiahao and Z. Kangping and W. Liang and Y. Jinghui and H. Cheng and K. Long and A. Lau and C. Lu. "PDM PAM-4 with IM-DD using a simple MIMO DSP-based receiver for short reach communications". In: *ACP*, no. AM3E.3, November 2015.
- [486] J. Navarro and X. Pang and A. Kakkar and O. Ozolins and R. Schatz and G. Jacobsen and S. Popov. "Adaptive Boundaries Scheme for Cycle-Slip Mitigation in C-mQAM Coherent Systems". In: *IEEE Photonics Technology Letters*, vol. 27, no. 20, pp. 2154-2157, October 2015.
- [487] A. Kakkar and J. Navarro and R. Schatz and X. Pang and O. Ozolins and H. Louchet and G. Jacobsen and S. Popov. "Mitigation of EEPN in Coherent Optical Systems With Low-Speed Digital Coherence Enhancement". In: *IEEE Photonics Technology Letters*, vol. 27, no. 18, pp. 1942-, September 2015.
- [488] A. Kakkar and X. Pang and O. Ozolins and R. Schatz and J. Navarro and H. Louchet and G. Jacobsen and S. Popov. "A Path to Use Large Linewidth LO in 28 Gbd 16-QAM Metro Links". In: *ECOC*, no. Tu_3_4_6 - ID: 0071, September 2015.
- [489] Q. Cheng and M. Ding and A. Wonfor and J. Wei and R. Penty and I. White. "The Feasibility of Building a 64x64 Port Count SOA-Based Optical Switch". In: *Photonics in Switching*, September 2015.

- [490] S. Zhang and J. Cartledge. "A DSP-Based Control Method For a Nonlinear Mach-Zehnder Interferometer DPSK Regenerator". In: *Journal of Lightwave Technology*, vol. 33, pp. 3788-3795, September 2015.
- [491] M. Zhang and Y. Cui and Y. Zhan and Z. Zhang and X. Chen. "Optical encryption/decryption of 8PSK signal using FWM-based modified XOR". In: *Applied Optics*, vol. 54, pp. 7813-7819, September 2015.
- [492] A. Rezaia and A. Kashi and J. Cartledge. "Impact of Intra- and Inter-subcarrier Nonlinearities on the Information Rate of a 1.206 Tbit/s DP 16-QAM Superchannel". In: *ECOC*, no. P_5_17 - ID: 0715, September 2015.
- [493] H. Zhou and B. Li and M. Tang and Z. Feng and S. Fu and P. Shum and D. Liu. "A Fast and Robust Blind Chromatic Dispersion Estimation Based on Fractional Fourier Transformation". In: *ECOC*, no. Th_1_6_6 - ID: 0453, September 2015.
- [494] J. Sajgalikova and M. Dado and Jan Litvik. "Comparison of Numerical Modelling of Degradation Mechanisms in Single Mode Optical Fibre Using MATLAB and VPIphotonics". In: *Optics and Optoelectronics*, vol. 13, no. 3, pp. 268-272, September 2015.
- [495] A. Lowery and Y. Xie and C. Zhu. "Systems performance comparison of three all-optical generation schemes for quasi-Nyquist WDM". In: *Optics Express*, vol. 23, pp. 21706-21718, August 2015.
- [496] N. Nambath and R. Raveendranath and D. Banerjee and A. Sharma and A. Sankar and S. Gupta. "Analog Domain Signal Processing-Based Low-Power 100-Gb/s DP-QPSK Receiver". In: *Journal of Lightwave Technology*, vol. 33, pp. 3189-3197, August 2015.
- [497] C. Hsu and C. Chow and C. Yeh. "Cost-Effective Direct-Detection All-Optical OOK-OFDM System With Analysis of Modulator Bandwidth and Driving Power". In: *IEEE Photonics Journal*, vol. 7, August 2015.
- [498] G. Fekete and W. Kassa and T. Berceli and S. Faci and A. Billabert and C. Algani and T. Cseh and E. Udvary. "The Effect of Laser Characteristics on Millimetre Wave Optical Generation Techniques". In: *ICTON*, no. Mo.C5.1, July 2015.
- [499] M. Abbade and M. Cvijetic and C. Messani and C. Alves and S. Tenenbaum. "Double All-Optical Encryption of M-QAM Signals Based on Spectrally Sliced Encoding Keys". In: *ICTON*, no. Tu.A1.3, July 2015.
- [500] M. Niknamfar and M. Shadaram. "Two Cascaded Mach-Zehnder Modulators' Harmonic Distortion Analysis in Single Side-Band Millimeter Wave Generation System". In: *ICTON*, no. Tu.D2.2, July 2015.
- [501] J. Altabas and P. Arribas and D. Izquierdo and F. Sotelo and A. Lerin and J. Fabrega and J. Lazaro and I. Garces and G. Junyent. "Survey of Faster-Than-Nyquist for Flexible Passive Optical Networks". In: *ICTON*, no. Mo.D1.3, July 2015.
- [502] N. Karelin and H. Louchet and D. Kroushkov and A. Uvarov and S. Mingaleev and I. Koltchanov and A. Richter. "Modeling and Design Framework for SDM Transmission Systems". In: *ICTON*, no. Th.A1.6, July 2015.
- [503] B. Teipen and N. Eiselt and A. Dochhan and H. Griesser and M. Eiselt and J. Elbers. "Investigation of PAM-4 for Extending Reach in Data Center Interconnect Applications". In: *ICTON*, no. Mo.D3.3, July 2015.
- [504] A. Ellis and M. McCarthy and M. Al-Khateeb and S. Sygletos. "Capacity limits of systems employing multiple optical phase conjugators". In: *Optics Express*, vol. 23, pp. 20381-20393, July 2015.
- [505] P. Soumplis and P. Pananikolaou and K. Christodoulouopoulos and N. Argyris and C. Spatharakis and S. Dris and H. Avramopoulos and E. Varvarigos. "Cross-Layer Optimization: Network Cost vs. Physical Layer Margins". In: *ICTON*, no. Th.A3.2, July 2015.
- [506] R. Llorente and M. Morant and A. Macho and D. Garcia-Rodriguez and J. Corral. "Demonstration of a Spatially Multiplexed Multicore Fibre-Based Next-Generation Radio-Access Cellular Network". In: *ICTON*, no. Th.A1.4, July 2015.

- [507] X. Fang and Y. Xu and Z. Chen and F. Zhang. "Frequency-Domain Channel Estimation for Polarization-Division-Multiplexed CO-OFDM/OQAM Systems". In: *Journal of Lightwave Technology*, vol. 33, pp. 2743-2750, July 2015.
- [508] T. Alexoudi and D. Fitsios and P. Maniotis and C. Vagionas and S. Papaioannou and A. Miliou and G. Kanellos and N. Pleros. "WDM-Enabled Optical RAM and Optical Cache Memory Architectures for Chip Multiprocessors". In: *ICTON*, no. Tu.B1.1, July 2015.
- [509] P. Munoz. and J. Capmany and J. Fandino and J. Domenech and R. Banos and J. Martinez and S. Sirci and V. Boria. "Microwave Photonics Beat Filter Monolithically Integrated on an Indium Phosphide Chip". In: *ICTON*, no. Mo.B5.5, July 2015.
- [510] Y. Gao and A. Wen and W. Jiang and D. Liang and W. Liu and S. Xiang. "Photonic Microwave Generation with Frequency Octupling based on a DP-QPSK Modulator". In: *IEEE Photonics Technology Letters*, vol. 1109, pp. 1041-1135, July 2015.
- [511] I. White and M. Ding and Q. Cheng and A. Wonfor and R. Penty. "Advanced Photonic Routing Sub-Systems with Efficient Routing Control". In: *ICTON*, no. Tu.A3.1, July 2015.
- [512] S. Amado and F. Guiomar and N. Muga and A. Pinto. "Assessment of Nonlinear Equalization Algorithms for Coherent Optical Transmission Systems using an FPGA". In: *ICTON*, no. Mo.C1.4, July 2015.
- [513] C. Chow and J. Sung and C Yeh. "A Convergent Wireline and Wireless Time-and-Wavelength-Division-Multiplexed Passive Optical Network". In: *IEEE Photonics Journal*, vol. 7, pp. 1-7, June 2015.
- [514] J. Damas and N. Neumann and D. Plettemeier. "Printed Circuit Board Intermediate Frequency over Fiber Central Station". In: *ISMOT - International Symposium on Microwave and Optical Technology*, June 2015.
- [515] S. Yao and T. Eriksson and S. Fu and P. Johannisson and M. Karlsson and P. Andrekson and T. Ming and D. Liu. "Fast and robust chromatic dispersion estimation based on temporal auto-correlation after digital spectrum superposition". In: *Optics Express*, vol. 23, pp. 15418-15430, June 2015.
- [516] W. Jiang and Q. Tan and W. Qin and D. Liang and X. Li and H. Ma and Z. Zhu. "A Linearization Analog Photonic Link With High Third-Order Intermodulation Distortion Suppression Based on Dual-Parallel Mach-Zehnder Modulator". In: *IEEE Photonics Journal*, vol. 7, June 2015.
- [517] Q. Hu and C. Yu. "Analysis of SOA Optimization in Spectrum-Sliced WDM Systems for EIN Reduction and Dispersion Effect". In: *Advanced Photonics*, no. SpS4D.5, June 2015.
- [518] J. Hmood and K. Noordin and S. Harun and H. Shalaby. "Mitigation of phase noise in all-optical OFDM systems based on minimizing interaction time between subcarriers". In: *Optics Communications*, vol. 355, pp. 313-320, June 2015.
- [519] J. Hmood and S. Emami and K. Noordin and H. Ahmad and S. Harun and H. Shalaby. "Optical frequency comb generation based on chirping of Mach-Zehnder Modulators". In: *Optics Communications*, vol. 344, pp. 139-146, June 2015.
- [520] I. Sackey and F. DaRos and J. Fischer and T. Richter and M. Jazayerifar and C. Peucheret and K. Petermann and C. Schubert. "Kerr Nonlinearity Mitigation: Mid-Link Spectral Inversion Versus Digital Backpropagation in 5x28-GBd PDM 16-QAM Signal Transmission". In: *Journal of Lightwave Technology*, vol. 33, pp. 1821-1827, May 2015.
- [521] X. Gong and L. Guo and Y. Liu and Y. Zhou. "System performance analysis of time-division-multiplexing passive optical network using directly modulated lasers or colorless optical network units". In: *Optical Engineering*, vol. 54, no. 5, pp. 056110, May 2015.

- [522] A. Kakkar and R. Schatz and X. Pang and J. Navarro and H. Louchet and O. Ozolins and G. Jacobsen and S. Popov. "Impact of local oscillator frequency noise on coherent optical systems with electronic dispersion compensation". In: *Optics Express*, vol. 23, pp. 11221-11226, April 2015.
- [523] I. Aldaya and G. Campuzano and G. Castanon and A. Aragon-Zavala. "A Tutorial on Optical Feeding of Millimeter-Wave Phased Array Antennas for Communication Applications". In: *International Journal of Antennas and Propagation*, vol. 2015, pp. Article ID 264812, 22 pages, April 2015.
- [524] X. Zhou and K. Zhong and Y. Gao and Q. Sui and Z. Dong and J. Yuan and L. Wang and K. Long and A. Lau and C. Lu. "Polarization-interleave-multiplexed discrete multi-tone modulation with direct detection utilizing MIMO equalization". In: *Optics Express*, vol. 23, pp. 8409-8421, April 2015.
- [525] S. Aleksic and F. Hipp and D. Winkler and A. Poppe and B. Schrenk and G. Franzl. "Perspectives and limitations of QKD integration in metropolitan area networks". In: *Optics Express*, vol. 23, pp. 10359-10373, April 2015.
- [526] Z. Bakhtiari and A. Sawchuk. "All-optical tunable multilevel amplitude regeneration based on coherent wave mixing using a polarizer". In: *Optics Express*, vol. 23, pp. 10533-10539, April 2015.
- [527] M. Leong and K. Larsen and G. Jacobsen and S. Popov and D. Zibar and S. Sergeev. "Interleavers and BCH Codes for Coherent DQPSK Systems With Laser Phase Noise". In: *IEEE Photonics Technology Letters*, vol. 27, no. 7, pp. 685-688, April 2015.
- [528] M. Koga and A. Mizutori and T. Ohata and H. Takara. "Optical Diversity Transmission with Signal and its Phaseconjugate Lights through Multi-core Fiber". In: *OFC*, no. Th1D.4, March 2015.
- [529] F. Guiomar and S. Amado and C. Martins and A. Pinto. "Parallel Split-Step Method for Digital Backpropagation". In: *OFC*, no. Th2A.28, March 2015.
- [530] R. Bonjour and S. Gebrewold and D. Hillerkuss and C. Hafner and J. Leuthold. "Continuously tunable true-time delays with ultra-low settling time". In: *Optics Express*, vol. 23, pp. 6952-6964, March 2015.
- [531] B. Foo and B. Corcoran and A. Lowery. "Optoelectronic method for distributed compensation of XPM in long haul WDM systems". In: *OFC*, no. Th2A.24, March 2015.
- [532] M. Noelle and R. Frey and R. Elschner and C. Schmidt-Langhorst and J. Fischer and C. Schubert. "Investigation of CAZAC Sequences for Data-Aided Channel Estimation Considering Nonlinear Optical Transmission". In: *OFC*, no. Th3G.2, March 2015.
- [533] P. Groumas and V. Katopodis and J. Choi and H. Bach and J. Dupuy and A. Konczykowska and Z. Zhang and P. Harati and E. Miller and A. Beretta and L. Gounaridis and F. Jorge and V. Nodjiadjim and A. Dede and A. Vannucci and G. Cangini and R. Dinu and N. Keil and N. Grote and H. Avramopoulos and C. Kouloumentas. "Multi-100 GbE and 400 GbE Interfaces for Intra-Data Center Networks Based on Arrayed Transceivers With Serial 100 Gb/s Operation". In: *Journal of Lightwave Technology*, vol. 33, pp. 943-954, February 2015.
- [534] X. Hong and X. Hong and S. He. "Linearly interpolated sub-symbol optical phase noise suppression in CO-OFDM system". In: *Optics Express*, vol. 23, pp. 4691-4702, February 2015.
- [535] R. Kibria and M. Austin. "All Optical Signal-Processing Techniques Utilizing Four Wave Mixing". In: *Photonics*, vol. 2, pp. 200-213, February 2015.
- [536] J. Hmood and S. Harun and S. Emami and A. Khodaei and K. Noordin and H. Ahmad and H. Shalaby. "Performance analysis of an all-optical OFDM system in presence of non-linear phase noise". In: *Optics Express*, vol. 23, pp. 3886-3900, February 2015.
- [537] M. Jarajreh and E. Giacomidis and I. Aldaya and S. Le and A. Tsokanos and Z. Ghassemlooy and N.. Doran. "Artificial Neural Network Nonlinear Equalizer for Coherent Optical OFDM". In: *IEEE Photonics Technology Letters*, vol. 27, pp. 387-390, February 2015.

- [538] M. Medeiros and M. Thakur and S. Mikroulis and J. Mitchell. "Wavelength Shift Tolerance of a Heterodyne Detection Scheme for Cost-Efficient DWDM-PON / 60 GHz Wireless Integration". In: Photonics West, vol. 9387, pp. 93870E-1 - 93870E-6, February 2015.
- [539] B. Foo and B. Corcoran and A. Lowery. "Optoelectronic method for inline compensation of XPM in long-haul optical links". In: Optics Express, vol. 23, pp. 859-872, January 2015.

2014

- [540] S. Zafrani and X. Pang and G. Jacobsen and S. Popov and S. Sergeev. "Phase noise tolerance study in coherent optical circular QAM transmissions with Viterbi-Viterbi carrier phase estimation". In: *Optics Express*, vol. 22, pp. 30579 - 30585, December 2014.
- [541] Z. Yan and Y. Liu and X. Chen and S. Shi and C. Zhang. "A Low Complexity Compensation Algorithm Using Crosstalk Weight for Intra-channel Nonlinearity In CO-OFDM System". In: *The Scientific World Journal*, vol. (provisional), December 2014.
- [542] K. Yiannopoulos and E. Varvarigos and V. Katopodis and K. Christodoulopoulos and I. Lazarou and P. Bakopoulos and H. Avramopoulos and D. Klonidis and I. Tomkos and P. Dimos and G. Heliotis. "Coverage Capabilities of a Multi-Wavelength Passive Optical Network Architecture". In: *CAMAD - International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks*, no. pp. 51-55, December 2014.
- [543] C. Chow and C. Yeh and J. Sung and C. Hsu. "Wired and wireless convergent extended-reach optical access network using direct-detection of all-optical OFDM super-channel signal". In: *Optics Express*, vol. 22, pp. 30719-30724, December 2014.
- [544] Q. Liu and Z. Zhang and X. Chen and Y. Sun. "Rayleigh Crosstalk Mitigation in Channel-Reuse WDM PON Using RZ-AMI Modulation and Optical Filtering". In: *ACP*, no. ATH3A.114, November 2014.
- [545] M. Leong and K. Larsen and G. Jacobsen and S. Popov and D. Zibar and S. Sergeev. "Dimensioning RS Codes for Mitigation of Phase Noise Induced Cycle Slips in DQPSK Systems". In: *ACP*, no. ATH4D.4, November 2014.
- [546] M. Leong and K. Larsen and G. Jacobsen and S. Popov and D. Zibar and S. Sergeev. "Dimensioning BCH Codes for Coherent DQPSK Systems With Laser Phase Noise and Cycle Slips". In: *Journal of Lightwave Technology*, vol. 32, no. 21, pp. 3446-3450, November 2014.
- [547] I. Sackey and F. DaRos and M. Jazayerifar and T. Richter and C. Meuer and M. Noelle and L. Molle and C. Peucheret and K. Petermann and C. Schubert. "Kerr nonlinearity mitigation in 5 x 28-GBd PDM 16-QAM signal transmission over a dispersion-uncompensated link with backward-pumped distributed Raman amplification". In: *Optics Express*, vol. 22, pp. 27381 - 27391, November 2014.
- [548] W. Zhixin and Y. Wang and C. Nan. "Experimental demonstration of a RGB-LED based visible light communication system employing Carrierless Amplitude and Phase modulation". In: *ACP*, no. ATH3A.133, November 2014.
- [549] A. Lowery and C. Zhu and E. Viterbo and B. Corcoran. "All-optical generation of DFT-S-OFDM superchannels using periodic sinc pulses". In: *Optics Express*, vol. 22, pp. 27026-27041, November 2014.
- [550] P. Xiang and D. Chen and Y. Li and T. Pu. "Photonic Generation of Power Efficient Millimeter-wave UWB Signals with Dual-band Operation Consideration". In: *ACP*, no. ATH3A.145, November 2014.
- [551] P. Zhu and H. Zhao and J. Li and Y. Zhao and Z. Chen and Y. He. "Inter-frame Iterative Carrier Frequency Offset Estimation for CO-OFDM System". In: *ACP*, no. ATH3A.115, November 2014.
- [552] H. Louchet and A. Richter. "Efficient BER estimation for simulation of coherent transmission systems including digital signal processing and forward-error-correction". In: *ACP*, no. AF1F.4, November 2014.
- [553] X. Zhang and R. Cheng and W. He and Q. Yang. "A Novel Cost-Effective WDM Self-Healing Ring for FMC Access Network". In: *ACP*, no. ATH3A.174, November 2014.
- [554] J. Zhang and X. Chen and D. Zeng and H. Yang and X. Yi and K. Qiu. "ICI cancellation using symmetric subcarrier pairs with opposite weightings in CO-OFDM systems". In: *ACP*, no. ATH3A.121, November 2014.

- [555] T. Nguyen and E. Chan and R. Minasian. "Photonic Multiple Frequency Measurement Using a Frequency Shifting Recirculating Delay Line Structure". In: *Journal of Lightwave Technology*, vol. 32, pp. 3831 - 3838, October 2014.
- [556] C. Wang and N. Gomes. "Photonics-Enabled Sub-Nyquist Radio Frequency Sensing based on Temporal Channelization and Compressive Sensing". In: *MWP/APMP - Microwave Photonics, International Topical Meeting on & Microwave Photonics Conference, Asia-Pacific*, October 2014.
- [557] J. Larikova and V. Velev and P. Kumar and Y. Huang. "Quantum Communications with Overlapping Time Modes: Optimal Receiver Capable of Dispersion Compensation". In: *FiO/LS - Frontiers in Optics/Laser Science*, no. FTu4A.4, October 2014.
- [558] C. Chow and C. Yeh and J. Sung. "OFDM RF power-fading circumvention for longreach WDM-PON". In: *Optics Express*, vol. 22, pp. 24392-24397, October 2014.
- [559] N. Andre and H. Louchet and K. Habel and A. Richter. "33% Capacity Improvement of a Direct-modulation Direct detection OFDM Link Using Adaptive Volterra Equalization". In: *ECOC*, no. P.3.12, September 2014.
- [560] S. Yao and T. Eriksson and S. Fu and J. Li and P. Johannisson and M. Karlsson and P. Andrekson and P. Shum and D. Liu. "Spectrum Superposition Based Chromatic Dispersion Estimation for Digital Coherent Receivers". In: *ECOC*, no. P.3.17, September 2014.
- [561] S. Vazquez and P. Torres-Ferrera and R. Gutierrez-Castrejon and I. Tomkos. "Unamplified 10-km transmission using direct-detection optical OFDM superchannel at 100 Gbps". In: *LAOP - OSA Latin America Optics & Photonics Conference*, no. LM4A.9, August 2014.
- [562] J. Fischer and S. Alreesh and R. Elschner and F. Frey and M. Noelle and C. Schmidt-Langhorst and C. Schubert. "Bandwidth-Variable Transceivers based on Four-Dimensional Modulation Formats". In: *Journal of Lightwave Technology*, vol. 32, pp. 2886-2895, August 2014.
- [563] T. Xu and G. Jacobsen and S. Popov and J. Li and S. Sergeev and A. Friberg and Y. Zhang. "Analytical BER performance in differential n-PSK coherent transmission system influenced by equalization enhanced phase noise". In: *Optics Communications*, vol. 334, pp. 222-227, August 2014.
- [564] K. Kaur and R. Randhawa and R. Kaler. "Low cost architecture to integrate multiple PONs to a long reach spectrum sliced WDM network". In: *Optik - International Journal for Light and Electron Optics*, vol. 125, no. 16, pp. 4513 - 4516, August 2014.
- [565] Q. Zhang and C. Zhang and C. Chen and W. Jin and K. Qiu and B. Wu and C. Li. "Multi-service radio-over-fiber system with multiple base-station groups enabled by scalable generation of multi-frequency MMWs". In: *Optics Communications*, vol. 324, pp. 120 - 126, August 2014.
- [566] G. Glentis and C. Politi and C. Matrakidis and M. Nanou and D. Uzunidis and K. Georgoulakis and A. Stavdas. "Cost-Effective Adaptive Optical Network Technologies for Metropolitan Area Networks". In: *ICTON*, no. We.C1.5, pp. 1 - 4, July 2014.
- [567] A. Miliou and D. Tsiokos and C. Mitsolidou and G. Kalfas and N. Pleros. "Heterogeneous 60 GHz / 5 GHz Broadband Optical Wireless Systems Supporting Dynamic Bandwidth Allocation". In: *ICTON*, no. Tu.D4.3, pp. 1 - 4, July 2014.
- [568] T. Cseh and G. Meszaros and G. Fekete and T. Bercei. "Simulations of Air-Gap Mode Filtering Technique for Radio over Multimode Fiber System". In: *ICTON*, no. Th.A1.4, pp. 1 - 4, July 2014.
- [569] B. Lembrikov and Y. Ben-Ezra and Y. Yurchenko. "Transmission of Chaotically Encrypted Signals over an Optical Channel". In: *ICTON*, no. Tu.C2.4, July 2014.

- [570] E. Giacomidis and I. Aldaya and M. Jarajreh and A. Tsokanos and S. Le and F. Farjady and Y. Jaouen and A. Ellis and N. Doran. "Volterra-Based Reconfigurable Nonlinear Equalizer for Coherent OFDM". In: IEEE Photonics Technology Letters, vol. 26, no. 14, pp. 1383 - 1386, July 2014.
- [571] M. Niknamfar and M. Shadaram. "Two Sub-Carriers Multiplexed Millimeter Wave Generation Using Mach-Zehnder Modulators". In: ICTON, no. Tu.D4.4, pp. 1 - 4, July 2014.
- [572] M. Shariati and I. Cano and M. Santos. "Optimum CSPR Evaluation of Heterodyne Envelope Receivers in OFDM-PONs". In: ICTON, no. Tu.P.28, pp. 1 - 4, July 2014.
- [573] X. Escayola and I. Cano and M. Santos and J. Prat. "Laser Linewidth Requirements for Remote Heterodyne OFDM Based PON Scenario". In: ICTON, no. Tu.A3.6, pp. 1 - 4, July 2014.
- [574] K. Kaur and R. Randhawa and R. Kaler. "Performance analysis of WDM-PON architecture using different receiver filters". In: Optik - International Journal for Light and Electron Optics, pp. 1 - 3, July 2014.
- [575] S. Aleksic and D. Winkler and F. Hipp and A. Poppe and G. Franzl and B. Schrenk. "Towards a Smooth Integration of Quantum Key Distribution in Metro Networks". In: ICTON, no. Tu.B1.1, pp. 1 - 4, July 2014.
- [576] I. Aldaya and G. Campuzano and C. Gosset and G. Castanon. "Simultaneous generation of WDM PON and RoF signals using a hybrid mode-locked laser". In: ICTON, no. We.D4.5, pp. 1 - 4, July 2014.
- [577] R. Ribeiro and A. Barbero and V. Silva and F. Lucarz and B. Fracasso. "Electrical Modulation of a Semiconductor Optical Amplifier Inserted into a Sagnac Loop by Injecting Microwave Carrier". In: ICTON, July 2014.
- [578] R. Ribeiro and V. Silva and A. Barbero and F. Lucarz and B. Fracasso. "Numerical Analysis of Sagnac Loop Incorporating a Semiconductor Optical Amplifier to Suppress the Unmodulated Optical Carrier in the Time Domain". In: ICTON, no. We.P.2, pp. 1 - 4, July 2014.
- [579] R. Ribeiro and V. Silva and A. Barbero and F. Lucarz and B. Fracasso. "Design of an Analogue for Optically Digitised Radio-over-Fibre Signals". In: ICTON, no. We.C4.5, pp. 1 - 4, July 2014.
- [580] N. Karelin and G. Shkred and A. Simonov and S. Mingaleev and I. Koltchanov and A. Richter. "Parallel Simulations of Optical Communication Systems". In: ICTON, no. We.D1.4, pp. 1 - 4, July 2014.
- [581] M. Abbade and G. Assis and C. Alves and C. Messani and E. Fagotto and M. Cvijetic. "All-Optical Phase and Delay Spectral Encoding of Signals with Advanced Modulation Formats". In: ICTON, no. Tu.B1.4, pp. 1 - 4, July 2014.
- [582] A. Pinto and F. Guiomar and S. Amado and S. Ziaie and A. Shahpari and R. Ferreira and N. Muga and A. Teixeira. "Digital Equalization of Optical Nonlinearities in Very High-Speed Optical Communication Systems". In: ICTON, no. We.D1.1, pp. 1 - 5, July 2014.
- [583] H. Louchet and D. Piasentin and A. Richter. "Link Emulation and Importance Sampling for Performance Estimation of DSP-based Transmission Systems". In: SPPcom, no. ST4D.2, July 2014.
- [584] N. Andre and K. Habel and H. Louchet and A. Richter. "Analytical Formulation for SNR Prediction in DMDD OFDM-Based Access Systems". In: IEEE Photonics Technology Letters, vol. 26, no. 12, pp. 1255 - 1258, June 2014.
- [585] C. Do and C. Zhu and A. Tran. "Flexible Tracking Speed Data-Aided Coherent Optical System Using Golay Sequences". In: IEEE Photonics Journal, vol. 6, June 2014.
- [586] C. Zhu and A. Tran and L. Du and A. Lowery. "Training-Aided Coherent Optical Single-Carrier System With Improved Nonlinearity Tolerance". In: IEEE Photonics Technology Letters, vol. 26, pp. 1211 - 1214, June 2014.

- [587] J. Sung and K. Cheng and C. Chow and C. Yeh and C. Pan. "A scalable and continuous-upgradable optical wireless and wired convergent access network". In: *Optics Express*, vol. 22, no. 11, pp. 12779 - 12784, May 2014.
- [588] K. Xu and J. Sung and C. Wong and Z. Cheng and C. Chow and H. Tsang. "Optical Nyquist filters based on silicon coupled resonator optical waveguides". In: *Optics Communications*, vol. 329, pp. 23 - 27, May 2014.
- [589] C. Arellano and A. Richter and S. Mingaleev and I. Koltchanov and C. Kazmierski. "Modeling and Tolerance Analysis of Monolithic InP-based Dual Polarization QPSK Transmitter". In: *Compound Semiconductor Week*, May 2014.
- [590] M. Tan and F. Khan and W. Al-Arashi and Y. Zhou and A. Lau. "Simultaneous Optical Performance Monitoring and Modulation Format/Bit-Rate Identification Using Principal Component Analysis". In: *Journal of Optical Communications and Networking*, vol. 6, pp. 441 - 448, May 2014.
- [591] H. Louchet and K. Kuzmin and A. Richter. "Joint Carrier-Phase and Polarization Rotation Recovery for Arbitrary Signal Constellations". In: *IEEE Photonics Technology Letters*, vol. 26, pp. 922 - 924, May 2014.
- [592] L. Deng and X. Pang and I. Monroy and M. Tang and P. Shum and D. Liu. "Experimental Demonstration of Nonlinearity and Phase Noise Tolerant 16-QAM OFDM W-Band (75-110 GHz) Signal Over Fiber System". In: *Journal of Lightwave Technology*, vol. 32, no. 8, pp. 1442 - 1448, April 2014.
- [593] E. Giacomidis and M. Jarajreh and S. Sygletos and S. Le and F. Farjady and A. Tsokanos and A. Hamie and E. Pincemin and Y. Jaouen and A. Ellis and N. Doran. "Dual-polarization multi-band optical OFDM transmission and transceiver limitations for up to 500 Gb/s uncompensated long-haul links". In: *Optics Express*, vol. 22, no. 9, pp. 10975 - 10986, April 2014.
- [594] L. Yu and D. Lu and B. Pan and L. Zhao. "Widely Tunable Optical Decision Circuit Using a Monolithically Integrated SOA-SGDBR Laser". In: *IEEE Photonics Technology Letters*, vol. 26, no. 7, pp. 722 - 725, April 2014.
- [595] M. Bi and S. Xiao and J. Li and H. He. "A bandwidth-efficient channel allocation scheme for mitigating FWM in ultra-dense WDM-PON". In: *Optik - International Journal for Light and Electron Optics*, vol. 125, no. 8, pp. 1957 - 1961, April 2014.
- [596] L. Silva and I. Costa and A. Junior. "Multiphysics design methodology for photonic-based phased array antennas". In: *Microwave and Optical Technology Letters*, vol. 56, no. 4, pp. 838 - 843, April 2014.
- [597] J. Jensen and R. Rodes and A. Caballero and N. Cheng and D. Zibar and I. Monroy. "VCSEL Based Coherent PONs". In: *Journal of Lightwave Technology*, vol. 32, pp. 1423 - 1433, April 2014.
- [598] E. Chan and R. Minasian. "All-Optical Frequency Shifter Based on Stimulated Brillouin Scattering in an Optical Fiber". In: *IEEE Photonics Journal*, vol. 6, no. 2, pp. 6600210 - 6600210, April 2014.
- [599] S. Sakhaf and A. Dixit and W. Tavernier and D. Colle and M. Pickavet and P. Demeester. "All-Optical Tree-based Greedy Router". In: *OFC/NFOEC*, no. W2A.7, March 2014.
- [600] M. Morshed and A. Lowery and L. Du. "Reducing Nonlinear Distortion in Optical Phase Conjugation using a Midway Phase-Shifting Filter". In: *OFC/NFOEC*, no. W2A.56, March 2014.
- [601] S. Cho and H. Park and H. Chung and K. Doo and S. Lee and J. Lee. "Cost-effective Next Generation Mobile Fronthaul Architecture with Multi-IF Carrier Transmission Scheme". In: *OFC/NFOEC*, no. Tu2B.6, March 2014.
- [602] I. Aldaya and G. Campuzano and G. Castanon. "Analysis of the modulation impairments in optical sideband injection locking for millimeter-wave signal generation". In: *Optics & Laser Technology*, vol. 56, pp. 167 - 176, March 2014.
- [603] A. Tanaka and N. Cvijetic and T. Wang. "Beyond 5dB Nonlinear Raman Crosstalk Reduction via PSD Control of 10Gb/s OOK in RF-Video Coexistence Scenarios for Next-Generation PON". In: *OFC/NFOEC*, no. M3I.3, March 2014.

- [604] P. Maniotis and D. Fitsios and G. Kanellos and N. Pleros. "A 16GHz Optical Cache Memory Architecture for Set-Associative Mapping in Chip Multiprocessors". In: OFC/NFOEC, no. Th2A.6, March 2014.
- [605] J. Li and C. Yu and Z. Li. "Complementary frequency shifter based on polarization modulator used for generation of a high-quality frequency-locked multicarrier". In: Optics Letters, vol. 39, pp. 1513 - 1516, March 2014.
- [606] L. Du and A. Lowery. "Channelized Chromatic Dispersion Compensation for XPM Suppression and Simplified Digital SPM Compensation". In: OFC/NFOEC, no. W2A.13, March 2014.
- [607] L. Du and D. Rafique and A. Napoli and B. Spinnler and A. Ellis and M. Kuschnerov and A. Lowery. "Digital Fiber Nonlinearity Compensation: Toward 1-Tb/s transport". In: IEEE Signal Processing Magazine, vol. 31, no. 2, pp. 45 - 56, March 2014.
- [608] C. Zhu and L. Du and A. Tran and A. Lowery and E. Skafidas. "Training-Aided PDM 64-QAM Transmission with Enhanced Fiber Nonlinearity Tolerance". In: OFC/NFOEC, no. M2A.7, March 2014.
- [609] Y. Qian and H. Mehrvar and H. Ma and X. Yang and K. Zhu and H. Fu and D. Geng and D. Goodwill and P. Dumais and E. Bernier. "Crosstalk optimization in low extinction-ratio switch fabrics". In: OFC/NFOEC, no. Th1I.4, March 2014.
- [610] A. Rahim and S. Schwarz and J. Bruns and L. Zimmermann and S. Ahmed and C. Schaffer and K. Petermann. "16-Channel O-OFDM Demultiplexer in Silicon Photonics". In: OFC/NFOEC, no. Th3F.2, March 2014.
- [611] C. Zhang and W. Jin and Q. Zhang and C. Chen and K. Qiu. "Polarization multiplexed OFDM band interleaving enabled metro-access integrated networks". In: Optical Fiber Technology, vol. 20, no. 2, pp. 130 - 136, March 2014.
- [612] L. Vazquez-Zuniga and Y. Jeong. "Study of a mode-locked erbium-doped frequency-shifted-feedback fiber laser incorporating a broad bandpass filter: Numerical results". In: Optics Communications, vol. 322, pp. 54 - 60, February 2014.
- [613] C. Arellano and S. Mingaleev and I. Koltchanov and A. Richter. "Modeling of Opto-Electronics in Complex Photonic Integrated Circuits". In: Photonics West, no. 89910Z, pp. 1 - 7, February 2014.
- [614] N. Pleros and P. Maniotis and T. Alexoudi and D. Fitsios and C. Vagionas and S. Papaioannou and K. Vyrsoinos and G. Kanellos. "Optical RAM-enabled cache memory and optical routing for Chip Multiprocessors: technologies and architectures". In: Photonics West, no. 89910Z, pp. 1 - 8, February 2014.
- [615] H. Louchet and K. Kuzmin and A. Richter. "Frequency, phase, and polarization-tracking algorithms for arbitrary four-dimensional signal constellations". In: Photonics West, no. 900907, pp. 1 - 7, February 2014.
- [616] Y. Shi and X. Chen and Y. Liu. "A novel modulation format of 50% RZ polarization interleaved multiplexing DQPSK with high CD and polarization crosstalk tolerance in high-speed self-homodyne receiving system". In: Optik - International Journal for Light and Electron Optics, vol. 125, pp. 272 - 275, January 2014.
- [617] T. Nguyen and E. Chan and R. Minasian. "Photonic Radio Frequency Memory Using Frequency Shifting Recirculating Delay Line Structure". In: Journal of Lightwave Technology, vol. 32, pp. 99 - 106, January 2014.

2013

- [618] T. Alexoudi and S. Papaioannou and G. Kanellos and A. Miliou and N. Pleros. "Optical Cache Memory Peripheral Circuitry: Row and Column Address Selectors for Optical Static RAM Banks". In: *Journal of Lightwave Technology*, vol. 31, no. 24, pp. 4098 - 4110, December 2013.
- [619] E. Embaye and O. Otesile and M. Toycan. "Converged optical wireless network featuring active and dynamic routing of radio signals". In: *HONET - International Conference on High Capacity Optical Networks and Enabling Technologies*, pp. 219 - 222, December 2013.
- [620] P. Maniotis and D. Fitsios and G. Kanellos and N. Pleros. "Optical Buffering for Chip Multiprocessors: A 16GHz Optical Cache Memory Architecture". In: *Journal of Lightwave Technology*, vol. 31, no. 24, pp. 4175 - 4191, December 2013.
- [621] K. Qureshi. "Simulation of Semiconductor Fiber Ring Lasers for C-Band Applications". In: *ICETET - International Conference on Emerging Trends in Engineering and Technology*, pp. 20 - 21, December 2013.
- [622] M. Rodrigues and P. Pinhoa. "Plastic Optical Fibers in Access Networks". In: *CETC - Conference on Electronics, Telecommunications and Computers*, pp. 601 - 607, December 2013.
- [623] E. Chan and R. Minasian. "High conversion efficiency microwave photonic mixer based on stimulated Brillouin scattering carrier suppression technique". In: *Optics Letters*, vol. 38, no. 24, pp. 5292 - 5295, December 2013.
- [624] S. Yu and W. Gu and A. Yang and T. Jiang and C. Wang. "A Frequency Quadrupling Optical mm-Wave Generation for Hybrid Fiber-Wireless Systems". In: *IEEE Journal on Selected Areas in Communications*, vol. 31, no. 2, pp. 797 - 803, December 2013.
- [625] R. Kibria and L. Bui and A. Mitchell and M. Austin. "(IPC) A Photonic Correlation Scheme Using FWM With Phase Management to Achieve Optical Subtraction". In: *IEEE Photonics Journal*, vol. 5, no. 6, pp. 5502209, December 2013.
- [626] R. Bhatia and A. Sharma and J. Saxena. "Performance improvement for N x 80-Gb/s WDM transmission link with optimized alternate polarization". In: *Optik - International Journal for Light and Electron Optics*, vol. 124, no. 23, pp. 6013 - 6016, December 2013.
- [627] A. Abbasi and S. Keyvaninia and G. Roelkens and G. Morthier. "Fast Phase Shifted asymmetrical DFB laser for alloptical flip-flop operation". In: *IEEE Photonics Society Benelux - Symposium*, pp. 139 - 142, November 2013.
- [628] C. Do and A. Tran and S. Chen and T. Anderson and D. Hewitt and E. Skafidas. "Flexible bandwidth DGD estimation for coherent optical OFDM system". In: *Optics Express*, vol. 21, no. 22, pp. 25788 - 25795, November 2013.
- [629] S. Fazel and M. Lourdiane and C. Lepers. "Extinction Ratio and BER Estimation of a Three Degree ROADM Node with Different WSS Placement". In: *ACP*, no. AF4E.6, November 2013.
- [630] L. Tao and Y. Ji and J. Liu and A. Lau and N. Chi and C. Lu. "Advanced modulation formats for short reach optical communication systems". In: *IEEE Network*, vol. 27, no. 6, pp. 6 - 13, November 2013.
- [631] H. Louchet and I. Koltchanov and A. Richter and Y. Ye and E. Zhou and G. Goeger and S. Zhang and X. Xu. "LUT-Based Performance Estimation for Reconfigurable Non-Dispersion Managed WDM Systems". In: *ACP*, no. AF2F.5, November 2013.
- [632] L. Zhuo and Z. Min and J. Jun and Z. Yueying and C. Xue. "Dynamic Subcarrier Assignment for OFDM-PON Network Based on RSOA". In: *ACP*, no. AF2G.11, November 2013.

- [633] B. Huang and M. Zhang and Y. Zhan and L. Wang. "10-Gbps RSOA-Based Transmission in WDM-PON with ESD-VSS based electronic Equalizers". In: ACP, no. AF2F.49, November 2013.
- [634] Y. Qiao and Y. Xu and Z. Wang and W. Qian and H. Liu and Y. Ji. "The Nonlinear Effects in Coherent Optical Transmission System". In: ACP, no. AF3D.1, November 2013.
- [635] T. Xu and G. Jacobsen and S. Popov and J. Li and S. Sergejev. "Mitigation of EEPN in Long-Haul n-PSK Coherent Transmission System Using Modified Optical Pilot Carrier". In: ACP, no. AF3E.1, November 2013.
- [636] J. Liu and M. Yu and X. Zeng and M. Wang and J. Lu. "A Method of Combining PPC and ACE to Reduce PAPR in CO-OFDM System". In: ACP, no. AF2F.65, November 2013.
- [637] B. Lin and J. Li and H. Yang and Y. Wan and Y. Luo and Y. He and Z. Chen. "1 Tb/s WDM-OFDM-PON over 20km SSMF with Polarization Interleaving and Multi-band". In: ACP, no. AW4E.5, November 2013.
- [638] L. Lin and B. Lin and P. Ho. "Novel Optimization Model for Cost-Effective LRPON Infrastructure Deployment". In: ACP, no. ATH4H.2, November 2013.
- [639] J. Li and T. Gui and Y. Bao and X. Feng and Z. Li. "Coherent Wavelength Conversion Based on Cascaded SSB Modulator and Semiconductor Optical Amplifier". In: ACP, no. AF3D.4, November 2013.
- [640] W. Zhou and T. Gui and Y. Bao and J. Li and X. Feng and W. Liu and C. Lu and Z. Wu and Z. Li. "High resolution optical spectrum characterization using optical channel estimation and optical frequency combs technique". In: ACP, no. AF3F.1, November 2013.
- [641] R. Ribeiro and V. Silva and A. Barbero and M. Carvalho and F. Lucarz and B. Fracasso. "An Optical Pulse Generator from a Sinusoidal Optical Signal Using Sagnac Loop - Self-Sampling". In: LATINCOM - IEEE Latin-American Conference on Communications, no. hal-00935380, pp. 1 - 6, November 2013.
- [642] P. Zhu and J. Li and Y. Chen and Y. Xu and B. Lin and B. Guo and Y. He and Z. Chen. "Mitigation of Noise Spread in CO-SCFDM System using Efficient Channel Estimation". In: ACP, no. AF4C.4, November 2013.
- [643] N. Andre and K. Habel and H. Louchet and A. Richter. "Adaptive nonlinear Volterra equalizer for mitigation of chirp-induced distortions in cost effective IMDD OFDM systems". In: Optics Express, vol. 21, no. 22, pp. 26527-26532, October 2013.
- [644] C. Sanchez and J. Wei and B. Ortega and J. Capmany. "Comprehensive Impairment and Performance Description of Directly Modulated/Detected OOFDM Systems". In: Journal of Lightwave Technology, vol. 31, no. 20, pp. 3277 - 3288, October 2013.
- [645] A. Aziz and E. Nayal and M. Aly and A. Seoud and W. Ng. "Impact of Amplified Spontaneous Emission on the Travelling Wave Semiconductor Optical Amplifier Performance". In: IWOW - International Workshop on Optical Wireless Communications, pp. 123 - 127, October 2013.
- [646] F. Guiomar and S. Amado and N. Muga and J. Reis and A. Teixeira and A. Pinto. "Simplified Volterra Series Nonlinear Equalizer by Intra-Channel Cross-Phase Modulation Oriented Pruning". In: ECOC, no. We.3.C.6, September 2013.
- [647] L. Stampoulidis and E. Giacomidis and M.F. O'Keefe and I. Aldaya and R.G. Walker and Y. Zhou and N. Cameron and E. Kehayas and A. Tsokanos and I. Tomkos and N.J. Doran and L. Zimmermann. "Cost-effective Broadband GaAs IQ Modulator Array for Long-Reach OFDM-PONs". In: ECOC, no. We.1.F.4, September 2013.
- [648] S. Hussin and K. Puntsri and D. Sandel and R. Noé. "Fiber nonlinearity Mitigation in CO-OFDM Systems using Dual Compensators". In: IEEE Photonics Conference, no. MG1.2, pp. 117 - 118, September 2013.
- [649] N. Sotiropoulos and T. Koonen and H. Waardt. "Advanced Differential Modulation Formats for Optical Access Networks". In: Journal of Lightwave Technology, vol. 31, no. 17, pp. 2829 - 2843, September 2013.

- [650] S. Schwarz and A. Rahim and J. Bruns and K. Petermann and C. Schaeffer. "Tunable Two-Stage 6th order FIR-Filter for Residual Dispersion Compensation". In: ECOC, no. P.2.12, September 2013.
- [651] Q. Cheng and A. Wonfor and R. Penty and I. White. "Scalable, Low-Energy Hybrid Photonic Space Switch". In: Journal of Lightwave Technology, vol. 31, no. 18, pp. 3077 - 3084, September 2013.
- [652] S. Hussin and K. Puntsri and R. Noé. "Improvement of RF-Pilot Phase Noise Compensation for Coherent Optical OFDM Systems via CPE Equalizer". In: IEEE Photonics Conference, no. MG1.5, pp. 123 - 124, September 2013.
- [653] J. Yang and M. Ziyadi and Y. Akasaka and S. Khaleghi and M. Chitgarha and J. Touch and M. Sekiya. "Investigation of Polarization-Insensitive Phase Regeneration Using Polarization-Diversity Phase-Sensitive Amplifier". In: ECOC, no. P.3.9, September 2013.
- [654] R. Kibria and M. Austin. "Optical Subtraction using Nonlinear Mixing". In: IEEE Photonics Conference, no. WC1.3, pp. 406 - 407, September 2013.
- [655] C. Zhao and C. Yang and F. Yang and F. Zhang and Z. Chen. "A CO-OFDM System With Almost Blind Phase Noise Suppression". In: IEEE Photonics Technology Letters, vol. 25, no. 17, pp. 1723 - 1726, September 2013.
- [656] S. Yu and T. Jiang and J. Li and R. Zhang and G. Wu and W. Gu. "Linearized Frequency Doubling for Microwave Photonics Links Using Integrated Parallel Mach-Zehnder Modulator". In: IEEE Photonics Journal, vol. 5, no. 4, pp. 5501108, August 2013.
- [657] I. Cano and M. Santos and J. Prat. "Optimum Carrier to Signal Power Ratio for Remote Heterodyne DD-OFDM in PONs". In: IEEE Photonics Technology Letters, vol. 25, no. 13, pp. 1242 - 1245, July 2013.
- [658] R. Corsini and A. Peracchi and E. Matarazzo and T. Foggi and J. Nijhof and G. Meloni and L. Poti and R. Magri and E. Ciaramella. "Blind Adaptive Chromatic Dispersion Compensation and Estimation for DSP-Based Coherent Optical Systems". In: Journal of Lightwave Technology, vol. 31, no. 13, pp. 2131 - 2139, July 2013.
- [659] M. Zhang and D. Wang and Z. Cao and X. Chen and S. Huang. "Suppression of pattern dependence in 10 Gbps upstream transmission of WDM-PON with RSOA-based ONUs". In: Optics Communications, vol. 308, pp. 248, July 2013.
- [660] S. Fan and H. Wang and Y. Li and W. Du and X. Zhang and J. Wu and J. Lin. "Optimal 16-Ary APSK Encoded Coherent Optical OFDM for Long-Haul Transmission". In: IEEE Photonics Technology Letters, vol. 25, no. 13, pp. 1199 - 1202, July 2013.
- [661] C. Tremblay and E. Archambault and M. Belanger and J. Savoie and F. Gagnon and D. Plant. "Passive filterless core networks based on advanced modulation and electrical compensation technologies". In: Telecommunication Systems, vol. 52, July 2013.
- [662] Y. Xu and Y. Qiao and Y. Ji. "Characteristics of XPM in coherent optical OFDM WDM transmission systems". In: Optics Communications, vol. 297, pp. 113-117, July 2013.
- [663] T. Cseh and T. Berceci. "Improved receiver techniques for Radio over Multimode fiber systems". In: NOC - European Conference on Networks and Optical Communications, pp. 23 - 26, July 2013.
- [664] H. Lin and T. Gui and Y. Bao and J. Li and Z. Li and G. Liu. "Optical power monitoring for O-OFDM superchannel based on Wiener deconvolution". In: ICAIT - Advanced Infocomm Technology, pp. 249 - 250, July 2013.
- [665] I. Giuntoni and D. Stolarek and J. Bruns and L. Zimmermann and B. Tillack and Klaus Petermann. "Integrated Dispersion Compensator Based on Apodized SOI Bragg Gratings". In: IEEE Photonics Technology Letters, vol. 25, no. 14, pp. 1313 - 1316, July 2013.

- [666] X. Zhou and Z. Yan and X. Chen and K. Long. "Simple and Robust Chromatic Dispersion Estimation for RGI-CO-OFDM Systems". In: IEEE Photonics Technology Letters, vol. 25, no. 13, pp. 1222 - 1225, July 2013.
- [667] R. Ribeiro and F. Lucarz and B. Fracasso. "An all-optical Sampler for digitising Radio-over-Fibre transceivers". In: NOC - European Conference on Networks and Optical Communications, pp. 27 - 34, July 2013.
- [668] R. Ribeiro and F. Lucarz and B. Fracasso. "Proposal and design of an all-optical encoder for digitising radio-over-fibre transceivers". In: NOC - European Conference on Networks and Optical Communications, pp. 35 - 42, July 2013.
- [669] N. Andre and K. Habel and H. Louchet and A. Richter. "Equalization Techniques for High-Speed OFDM-Based Access Systems Using Direct Modulation and Direct Detection". In: ICTON, no. We.C1.3, pp. 1-6, June 2013.
- [670] C. Do and A. Tran and T. Anderson and E. Skafidas. "Data-Aided Second-Order Polarization-Mode Dispersion Estimation for QPSK and 16-QAM Coherent Optical Systems". In: CLEO, OECC, no. WR3-3, June 2013.
- [671] J. Xiong and R. Wang and T. Pu and L. Lu and T. Fang and Z. Wei and G. Sun and J. Zheng and P. Xiang. "A Novel Approach to Realizing SSB Modulation With Optimum Optical Carrier to Sideband Ratio". In: IEEE Photonics Technology Letters, vol. 25, no. 12, pp. 1114 - 1117, June 2013.
- [672] X. Fang and C. Yang and F. Zhang. "A phase noise estimation and suppression algorithm for PDM CO-OFDM". In: CLEO, OECC, no. TuPR-15, June 2013.
- [673] Z. Huang and F. Zhang and Z. Chen. "Joint nonlinear electrical equalization in coherent optical PDM DFT-spread-OFDM systems". In: Chinese Optics Letters, vol. 11, no. 6, pp. 060601-1 - 060601-4, June 2013.
- [674] Y. Zhang and S. Zhang and I. Djordjevic. "On the Pragmatic Turbo Equalizer for Optical Communications". In: CLEO, OECC, no. ThR2-4, June 2013.
- [675] J. Yan and Y. Chen and K. Feng and Y. Chang. "A Simple Receiving System Design for a 172.8-Gb/s Double-Sided Multiband Direct-Detected O-OFDM System". In: CLEO, OECC, no. TuPR-13, June 2013.
- [676] S. Hussin and K. Puntsri and R. Noe. "Analysis of Partial Pilot Filling Phase Noise Compensation for CO-OFDM Systems". In: IEEE Photonics Technology Letters, vol. 25, no. 12, pp. 1099 - 1102, June 2013.
- [677] S. Hussin and K. Puntsri and D. Sandel and M. Panhwar and R. Noe. "Efficiency Enhancement of CO-OFDM Systems Using Different Pulse Shapes". In: CLEO, OECC, no. TuR4-4, June 2013.
- [678] M. Niknamfar and M. Shadaram. "OSSB and ODSB Configurations for RoF Transmission over DWDM Link". In: ICTON, no. Mo.D4.4, pp. 1-4, June 2013.
- [679] Y. Gao and A. Lau and C. Lu. "Residual Carrier-Aided Frequency Offset Estimation for Square 16-QAM Systems". In: CLEO, OECC, no. TuPR-8, June 2013.
- [680] H. Wang and D. Kong and Y. Li and J. Wu and J. Lin. "Performance evaluation of (D)APSK modulated coherent optical OFDM system". In: Optical Fiber Technology, vol. 19, no. 3, pp. 242-249, June 2013.
- [681] H. Chung and S. Chang and K. Kim and J. Lee. "Effects of Carrier Phase Estimation on Front-end IQ Mismatch Compensation in DP-QPSK Coherent Receiver". In: CLEO, OECC, no. TuPR-2, June 2013.
- [682] T. Cseh and G. Fekete and E. Udvary and T. Bercei. "Distortion Equalization in Multi-Mode Fiber Links Carrying Radio Frequency OFDM Signals". In: ICTON, no. Th.B3.1, pp. 1-4, June 2013.
- [683] B. Lin and J. Li and Y. Wan and H. Yang and Y. He and Z. Chen. "Pre-compensation of Mach-Zehnder Modulator Nonlinearity for DD-OFDM System". In: CLEO, OECC, no. MP1-3, June 2013.
- [684] X. Escayola and I. Cano and M. Santos and J. Prat. "OFDM-PON Performance with Limited Quantization". In: ICTON, no. We.A3.2, pp. 1-4, June 2013.

- [685] M. Morshed and L. Du and A. Lowery. "Improving the Performance of Optical Phase Conjugator Using a Mid-way Filter". In: CLEO, OECC, no. TuR4-3, June 2013.
- [686] X. Zhou and X. Yang and R. Li and K. Long. "Efficient Joint Carrier Frequency Offset and Phase Noise Compensation Scheme for High-Speed Coherent Optical OFDM Systems". In: Journal of Lightwave Technology, vol. 31, no. 11, pp. 1755-1761, June 2013.
- [687] I. Aldaya and G. Campuzano and C. Gosset and E. Giacomidis and N. Doran and S. Mikroulis and G. Castanon. "Novel Cost-Effective PON-to-mm-Wave RoF Photonic Bridge for Multigigabit Access Networks". In: ICTON, no. Th.B3.5, pp. 1-4, June 2013.
- [688] M. Abbade and C. Messani and C. Alves and G. Taniguti and I. Fonseca and E. Fagotto. "A New All-Optical Cryptography Technique Applied to WDM-Compatible DPSK Signals". In: ICTON, no. We.B1.4, pp. 1-5, June 2013.
- [689] A. Pinto and S. Amado and N. Muga and F. Guiomar. "Equalization of Fiber Impairments Using High-Speed Digital Signal Processing". In: ICTON, no. Tu.B1.2, pp. 1-5, June 2013.
- [690] A. Walsh and H. Shams and J. Mountjoy and A. Fagan and J. Zhao and L. Barry and A. Ellis. "Demonstrating Doubly-Differential Quadrature Phase Shift Keying in the Optical Domain". In: IEEE Photonics Technology Letters, vol. 25, no. 11, pp. 1054 - 1057, June 2013.
- [691] G. Jacobsen and T. Xu and S. Popov and S. Sergeev. "Study of EEPN mitigation using modified RF pilot and Viterbi-Viterbi based phase noise compensation". In: Optics Express, vol. 21, no. 10, pp. 12351 - 12362, May 2013.
- [692] M. Jazayerifar and S. Warm and R. Elschner and D. Kroushkov and I. Sackey and C. Meuer and C. Schubert and K. Petermann. "Performance Evaluation of DWDM Communication Systems With Fiber Optical Parametric Amplifiers". In: Journal of Lightwave Technology, vol. 31, no. 9, pp. 1454 - 1461, May 2013.
- [693] Q. Yao-Jun and Z. Ji and Q. Wen-Hui and J. Yue-Feng. "The Gordon-Mollenauer Effect in 112 Gbit/s DP-QPSK Systems". In: Chinese Physics Letters, vol. 30, no. 8, pp. 084203-1 - 084203-4, May 2013.
- [694] C. Chow and C. Yeh and L. Yang and J. Sung and S. Huang and G. Chou and C. Pan. "Bend and twist insensitive large core multimode fiber (LCMMF) for baseband and ROF in-home data transmission". In: Optics Communications, vol. 294, pp. 78-82, May 2013.
- [695] L. Tang and S. Wu and Y. Li and H. Lu. "Novel survivable scheme for OFDM passive optical network". In: Optik - International Journal for Light and Electron Optics, May 2013.
- [696] S. Yu and Z. Yang and M. Lan and J. Lu and J. Li and G. Wu and W. Gu. "Direct detection OFDMA-PON based on optical single sideband modulation and polarisation multiplexing". In: Transactions on Emerging Telecommunications Technologies, vol. DOI: 10.1002/ett.2678, pp. 1 - 7s, May 2013.
- [697] G. Kastro and M. Palanivelan and S. Anand. "Mitigation of Nonlinear Effects Using Uniform Power Transmission in Coherent OOFDM Systems". In: ICT, pp. 583 - 588, April 2013.
- [698] L. Yi and Z. Li and M. Bi and W. Wei and W. Hu. "Symmetric 40-Gb/s TWDM-PON With 39-dB Power Budget". In: IEEE Photonics Technology Letters, vol. 25, no. 7, pp. 644 - 647, April 2013.
- [699] C. Chow and C. Yeh. "Using Downstream DPSK and Upstream Wavelength-Shifted ASK for Rayleigh Backscattering Mitigation in TDM-PON to WDM-PON Migration Scheme". In: IEEE Photonics Journal, vol. 5, no. 12, pp. 7900407, April 2013.
- [700] T. Xu and G. Jacobsen and S. Popov and J. Li and A. Friberg and Y. Zhang. "Carrier phase estimation methods in coherent transmission systems influenced by equalization enhanced phase noise". In: Optics Communications, vol. 293, pp. 54-60, April 2013.

- [701] A. Tait and B. Shastri and M. Fok and M. Nahmias and P. Prucnal. "The DREAM: An Integrated Photonic Thresholder". In: *Journal of Lightwave Technology*, vol. 31, no. 8, pp. 1263 - 1272, April 2013.
- [702] R. Ribeiro and F. Lucarz and B. Fracasso. "A Thresholder for All-Optical Digitising Radio-over-Fibre Transceivers". In: *ONDM*, pp. 161 - 166, April 2013.
- [703] Y. Ye and G. Goeger and E. Zhou and S. Zhang and X. Xu. "Interplay of Filtering and Nonlinear Transmission in Coherent Uncompensated DWDM System". In: *OFC/NFOEC*, no. OM3B.4, March 2013.
- [704] L. Zong and G. Liu and A. Lord and Y. Zhou and T. Ma. "40/100/400 Gb/s Mixed Line Rate Transmission Performance in Flexgrid Optical Networks". In: *OFC/NFOEC*, no. OTu2A.2, March 2013.
- [705] R. Watts and K. Shi and Y. Yu and L. Barry. "Detailed experimental phase noise characterization of Y-branch lasers for use in coherent communication systems". In: *OFC/NFOEC*, no. JW2A.32, March 2013.
- [706] H. Hajjar and B. Fracasso and D. Leroux. "Indoor optical wireless Gbps link dimensioning". In: *OFC/NFOEC*, no. NTu3J.3, March 2013.
- [707] J. Wang and X. Jiang and X. He and Y. Weng and Z. Pan. "Chromatic dispersion estimation methods using polynomial fitting in PDM-QPSK or other multilevel-format coherent optical systems". In: *Optical Fiber Technology*, vol. 19, no. 2, pp. 162-168, March 2013.
- [708] B. Wu and S. Qiu and Z. Feng and S. Cao and H. Zhao and J. Xiang and C. Ding and G. Liu and N. Deng and Q. Xiong. "Green and Agile Petabit Optical Sub-wavelength Switching Prototype for the Future OTN Multi-Chassis Switch Cluster". In: *OFC/NFOEC*, no. OM3A.3, March 2013.
- [709] S. Sun and S. Cui and C. Ke and M. Zhang and D. Liu. "Improved all optical chromatic dispersion monitoring method for WDM systems". In: *Optical Fiber Technology*, vol. 19, no. 2, pp. 115 - 120, March 2013.
- [710] J. Liu and M. Zhu and S. Fan and C. Liu and H. Chien and J. Yu and G. Chang. "Multi-band QPSK signal transmission implemented with remote up-conversion and Schottky RF detectors in a 60-GHz millimeter wave radio-over-fiber system". In: *Optical Fiber Technology*, vol. 19, no. 4, pp. 285-288, March 2013.
- [711] P. Kamala Kannan and B. Guru Vignesh and A. Iniyan and T. Ilavarasan. "Fiber Non-Linearity Mitigation in OFDM based Optical Networks". In: *CSIT - International Conference on Computer Science and Information Technology*, pp. 85 - 90, March 2013.
- [712] Z. Li and L. Yi and M. Bi and J. Li and H. He and X. Yang and W. Hu. "Experimental Demonstration of a Symmetric 40-Gb/s TWDM-PON". In: *OFC/NFOEC*, no. NTh4F.3, March 2013.
- [713] R. Yu and N. Fontaine and R. Proietti and B. Guan and S. Yoo. "All-Optical Phase Conjugation Using a 90 degree Optical Hybrid and Nested SOA-MZIs". In: *OFC/NFOEC*, no. OW4C.6, March 2013.
- [714] R. Maldonado-Basilio and R. L and S. Abdul-Majid and H. Nikkhah and K. Leong and T. Hall. "Effect of the degree of phase-correlation of laser sources on the transmission and optical coherent detection in radio-over-fibre systems". In: *Proceedings of SPIE*, vol. 8645, pp. 86450E 1-10, February 2013.
- [715] R. Proietti and Y. Yin and R. Yu and C. Nitta and V. Akella and S. Yoo. "An All-Optical Token Technique Enabling a Fully-Distributed Control Plane in AWGR-Based Optical Interconnects". In: *Journal of Lightwave Technology*, vol. 31, no. 3, pp. 414 - 422, February 2013.
- [716] C. Arellano and S. Mingaleev and I. Koltchanov and A. Richter and J. Pomplun and S. Burger and F. Schmidt. "Efficient Design of Photonic Integrated Circuits (PICs) by Combining Device- and Circuit- level Simulation Tools". In: *Photonics West*, February 2013.
- [717] Y. Huang and M. Huang and E. Ip and E. Mateo and P. Ji and D. Qian and A. Tanaka and Y. Shao and T. Wang and Y. Aono and T. Tajima and T. Xia and G. Wellbrock. "High-Capacity Fiber Field Trial Using Terabit/s All-Optical OFDM Superchannels With DP-QPSK and DP-8QAM/DP-QPSK Modulation". In: *Journal of Lightwave Technology*, vol. 31, no. 4, pp. 546 - 553, February 2013.

- [718] S. Wabnitz. "Importance Sampling Analysis of PMD Outages in PDM-QPSK Coherent Nonlinear Transmissions". In: IEEE Photonics Technology Letters, vol. 25, no. 3, pp. 264 - 267, February 2013.
- [719] T. Hall and R. Maldonado-Basilio and S. Abdul-Majid and J. Seregelyi and R. Li and I. Antolin-Perez and H. Nikkhah and F. Lucarz and J. Tocnaye and B. Fracasso and P. Pajusco and C. Karnfelt and D. Bourreau and M. Ney and R. Guemri and Y. Josse and H. Liu. "Radio-over-Fibre access for sustainable Digital Cities". In: Annals of Telecommunications, vol. 68, no. 1-2, pp. 3-21, February 2013.
- [720] E. Chan and R. Minasian. "Single sideband suppressed carrier modulator based frequency shifting recirculating delay line microwave photonic filter". In: Optics & Laser Technology, vol. 45, pp. 160-167, February 2013.
- [721] H. Khaleghi and P. Morel and A. Sharaiha and T. Rampone. "Experimental Validation of Numerical Simulations and Performance Analysis of a Coherent Optical-OFDM Transmission System Employing a Semiconductor Optical Amplifier". In: Journal of Lightwave Technology, vol. 31, no. 1, pp. 161 - 170, January 2013.
- [722] Q. Sui and A. Lau and C. Lu. "Fast and Robust Blind Chromatic Dispersion Estimation Using Auto-Correlation of Signal Power Waveform for Digital Coherent Systems". In: Journal of Lightwave Technology, vol. 31, no. 2, pp. 306 - 312, January 2013.
- [723] M. Morshed and L. Du and A. Lowery. "Mid-Span Spectral Inversion for Coherent Optical OFDM Systems: Fundamental Limits to Performance". In: Journal of Lightwave Technology, vol. 31, no. 1, pp. 58 - 66, January 2013.
- [724] C. Lecaplain and P. Grelu and S. Wabnitz. "Polarization-domain-wall complexes in fiber lasers". In: Journal of the Optical Society of America, vol. 30, no. 1, pp. 211-218, January 2013.

2012

- [725] Y. Gao and J. Ke and K. Zhong and J. Cartledge and S. Yam. "Assessment of Intrachannel Nonlinear Compensation for 112 Gb/s Dual-Polarization 16QAM Systems". In: *Journal of Lightwave Technology*, vol. 30, no. 24, pp. 3902 - 3910, December 2012.
- [726] E. Chan and W. Zhang and R. Minasian. "Photonic RF Phase Shifter Based on Optical Carrier and RF Modulation Sidebands Amplitude and Phase Control". In: *Journal of Lightwave Technology*, vol. 30, no. 23, pp. 3672 - 3678, December 2012.
- [727] R. Al-Dalky and A. Elrefaie and T. Landolsi and M. Hassan. "Impact of cascaded optical filters on 100 Gb/s PM-QPSK and 400 Gb/s PM-16QAM coherent communication systems". In: *ICCSII - International Conference on Computer Systems and Industrial Informatics*, pp. 1 - 4, December 2012.
- [728] Y. Qiao and Y. Xu and L. Li and Y. Ji. "Quadrature imbalance compensation algorithm based on statistical properties of signals in CO-QPSK system". In: *Chinese Optics Letters*, vol. 10, no. 12, pp. 120601-1 - 120601-4, December 2012.
- [729] T. Shang and J. Sun and Y. Li and X. Wang. "Study of the all-optical high-speed OFDM transmission system based on MAMSK modulation". In: *Optical Fiber Technology*, vol. 18, no. 6, pp. 440-446, December 2012.
- [730] Y. Yu and J. Yang and C. Yu. "Optical signal to noise ratio monitoring using a novel optical notch filtering scheme". In: *Photonics Global Conference*, pp. 1 - 4, December 2012.
- [731] C. Saiki and O. Otesile and M. Toygan. "Investigation of chromatic dispersion effect on 802.16 WiMax over long haul transmission distances". In: *HONET - International Conference on High Capacity Optical Networks and Enabling Technologies*, pp. 027 - 031, December 2012.
- [732] C. Zhihui and Z. Zhang and X. Chen and P. Xu. "A Novel Optical Comb Source Utilizing EAM-based Fiber Loops". In: *IMCCC - International Conference on Instrumentation, Measurement, Computer, Communication and Control*, pp. 1270 - 1273, December 2012.
- [733] M. Li and A. Wenn and Y. Chen and L. Shang and L. Yang and F. Wang. "An optical millimeter-wave vector signal generation scheme by frequency quadrupling". In: *Optics Communications*, vol. 285, no. 24, pp. 5429-5432, November 2012.
- [734] T. Zeng and Q. Yang and X. Xiao and C. Li and Z. Yang and S. Yu. "Multi-channel equalization of OFDM signal". In: *ACP*, no. AS4G.4, pp. 1-3, November 2012.
- [735] Y. Xu and Y. Qiao and Y. Ji. "An improved novel joint channel estimation algorithm for the 112 Gbit/s PDM CO-OFDM system". In: *Optik - International Journal for Light and Electron Optics*, vol. 123, no. 21, pp. 1998-2001, November 2012.
- [736] T. Xu and G. Jacobsen and S. Popov and J. Li and S. Sergeyev and Y. Zhang. "Influence of Digital Dispersion Equalization on Phase Noise Enhancement in Coherent Optical System". In: *ACP*, no. AS1C.3, pp. 1-3, November 2012.
- [737] T. Xu and G. Jacobsen and S. Popov and J. Li and S. Sergeyev and Y. Zhang. "Analysis of Carrier Phase Extraction Methods in 112-Gbit/s NRZ-PDM-QPSK Coherent Transmission System". In: *ACP*, no. AS1C.2, pp. 1-3, November 2012.
- [738] C. Chen and C. Zhang and Q. Zhang and K. Qiu. "A Scalable Metro-Access Integrated Network System with Reconfigurable WDM Central Ring and High-quality OFDMA Access Trees". In: *ACP*, no. AF4A.29, pp. 1-3, November 2012.

- [739] S. Cao and P. Kam and C. Yu. "Decision-Aided, Pilot-Aided, Decision-Feedback Phase Estimation for Coherent Optical OFDM Systems". In: IEEE Photonics Technology Letters, vol. 24, no. 22, pp. 2067 - 2069, November 2012.
- [740] B. Lin and J. Li and H. Yang and Y. Wan and Y. Luo and P. Zhang and Y. He and Z. Chen. "100-Gb/s Multi-band OFDM-PON Based on Polarization Interleaving and Direct Detection". In: ACP, no. AT3D.5, pp. 1-3, November 2012.
- [741] B. Lin and J. Li and H. Yang and Y. Wan and Y. He and Z. Chen. "Comparison of DSB and SSB transmission for OFDM-PON". In: Journal of Optical Communications and Networking, vol. 4, no. 11, pp. B94 - B100, November 2012.
- [742] X. Fang and C. Yang and F. Zhang. "A time-domain channel estimation algorithm for CO-OFDM". In: ACP, no. AS4G.3, pp. 1-3, November 2012.
- [743] Y. Yu and J. Yang and C. Yu. "Low Cost and CD Insensitive Optical Signal to Noise Ratio Monitoring Method Using Beat Noise". In: ICCS - IEEE International Conference on Communication Systems, pp. 41 - 44, November 2012.
- [744] A. Richter. "Modeling challenges for large-scale photonic integrated circuits". In: ACP, no. AW2A.4, November 2012.
- [745] M. Deng and X. Yi and H. Zhang and Z. Luo and K. Qiu. "Nonlinearity Impact on In-Band Crosstalk Penalties for 112-Gb/s PDM-CO-OFDM Transmission". In: ACP, no. AF4A.42, pp. 1-3, November 2012.
- [746] M. Salleh and Z. Manaf and K. Khairi and Z. Kadir and Z. Yusof and A. Supa'at and S. Idrus. "Simulation design for AOPR WDM/TDM PON system architecture using WDM to OTDM XGM". In: APCC, pp. 366 - 371, October 2012.
- [747] C. Chow and L. Yang and C. Yeh and C. Huang and J. Shi and C. Pan. "10 Gb/s optical carrier distributed network with W-band (0.1 THz) short-reach wireless communication system". In: Optics Communications, vol. 285, no. 21-22, pp. 4307-4311, October 2012.
- [748] C. Do and A. Tran and C. Zhu and S. Chen and T. Anderson and D. Hewitt and E. Skafidas. "Data-Aided Chromatic Dispersion Estimation for Polarization Multiplexed Optical Systems". In: IEEE Photonics Journal, vol. 4, no. 5, pp. 2037 - 2049, October 2012.
- [749] C. Do and A. Tran and C. Zhu and E. Skafidas. "Training Sequences in 16-QAM and QPSK Coherent Pol-Mux Single-Carrier Systems". In: IEEE Photonics Conference, no. WE1, pp. 449-450, September 2012.
- [750] C. Tatkeu and D. Loum and I. Dayoub and M. Heddebaut and J-M. Rouvaen. "Theoretical and Experimental Performances Evaluation of a New Multiple Access Technique for Optical Fibers". In: International Journal of Information Engineering, vol. 2, no. 3, pp. 129-137, September 2012.
- [751] M. Morshed and L. Du and A. Lowery. "Performance Limitation of Coherent Optical OFDM Systems with non-ideal Optical Phase Conjugation". In: IEEE Photonics Conference, no. TuU4, pp. 394-395, September 2012.
- [752] D. Rafique and A. Ellis. "Scaling the Advantages of Intra-channel Nonlinearity Compensation in Future Flexible Optical Networks". In: ECOC, no. P4.18, September 2012.
- [753] L. Zhu and G. Li. "Computationally Efficient Nonlinearity Compensation for Coherent Fiber-Optic Systems". In: ZTE Communications, vol. 10, no. 3, pp. 12 - 15, September 2012.
- [754] H. Louchet and I. Koltchanov and A. Richter and Y. Ye and E. Zhou and L. Binh and S. Zhang. "Generalized Scaling Laws for Kerr-Induced Signal Distortions in Nondispersion-Managed Systems". In: IEEE Photonics Technology Letters, vol. 24, no. 18, pp. 1618-1620, September 2012.

- [755] Z. Dong and A. Lau and C. Lu. "OSNR monitoring for QPSK and 16-QAM systems in presence of fiber nonlinearities for digital coherent receivers". In: *Optics Express*, vol. 20, no. 17, pp. 19520-19534, August 2012.
- [756] A. Tait and M. Nahmias and M. Fok and P. Prucnal. "A dual resonator enhanced asymmetric Mach-Zehnder: Ultrafast passive threshold for silicon-on-insulator". In: *OMN - International Conference on Optical MEMS and Nanophotonics*, pp. 212 - 213, August 2012.
- [757] M. Belkin and A. Loparev. "A Microwave Optoelectronic Oscillator: Mach-Zehnder Modulator or VCSEL Based Layout Comparison". In: *Progress In Electromagnetics Research Symposium*, pp. 1138 - 1142, August 2012.
- [758] S. Wabnitz and K. Turitsyn. "Mitigation of Nonlinear and PMD Impairments by Bit-Synchronous Polarization Scrambling". In: *Journal of Lightwave Technology*, vol. 30, no. 15, pp. 2494-2501, August 2012.
- [759] A. Islam and M. Bakaul and A. Nirmalathas and G. Town. "Simplified Generation, Transport, and Data Recovery of Millimeter-Wave Signal in a Full-Duplex Bidirectional Fiber-Wireless System". In: *IEEE Photonics Technology Letters*, vol. 24, no. 16, pp. 1428-1430, August 2012.
- [760] R. Vilar and F. Ramos and J. Marti. "Silicon-based photonic ring resonators for optical OFDM demultiplexing". In: *GFP - IEEE International Conference on Group IV Photonics*, pp. 108 - 110, August 2012.
- [761] E. Chan. "New equivalent continuously tunable high-resolution microwave photonic bandpass filter". In: *Microwave and Optical Technology Letters*, vol. 54, no. 11, pp. 2584-2587, August 2012.
- [762] E. Giacomidis and A. Kavatzikidis and N. Diamantopoulou and S. Mikrouli and I. Tomkos. "Quantitative Comparison of Low-Cost OFDMA-PON Transceiver Implementations". In: *ICTON*, no. We.D3.4, pp. 1-4, July 2012.
- [763] E. Giacomidis and J. Karaki and E. Pincemin and C. Gosset and R. Le Bidan and E. Awwad and Y. Jaouen. "100 Gb/s Coherent Optical Polarization Multiplexed Multi-Band-OFDM (MB-OFDM) Transmission for Long-Haul Applications". In: *ICTON*, no. We.B1.2, pp. 1-4, July 2012.
- [764] Y. Zhao and B. Guo and C. Zhao and Y. Wang and S. Ma and J. Li and Z. Chen and Y. He. "Energy Efficient Spectrum Allocation in Loadadaptive Bandwidth-variable Switching Networks". In: *OECC*, no. 3A2-4, pp. 24-25, July 2012.
- [765] T. Cseh and T. Berceci and E. Udvary and G. Fekete. "Optical Transmission of OFDM m-QAM RF Signals: Comparison of Direct and External Modulations". In: *ICTON*, no. Tu.D4.3, pp. 1-5, July 2012.
- [766] S. Cao and P. Kam and C. Yu. "Pre-distortion versus Post-equalization for IQ Mismatch Compensation in CO-OFDM". In: *OECC*, no. 4B3-2, pp. 160-161, July 2012.
- [767] D. Bento and M. Medeiros and P. Laurencio. "Performance Comparison between Single and Dual-Arm MZM in 60 GHz OFDM-RoF System with OSSB Modulation". In: *ICTON*, no. Tu.P.19, pp. 1-4, July 2012.
- [768] R. Llorente and M. Beltrán and M. Morant and E. Pellicer. "Cost and Energy Efficient Multi-Standard OFDM Integrated Optical Access and In-Building Network Architecture". In: *ICTON*, no. Mo.C3.1, pp. 1-5, July 2012.
- [769] H. Wang and Y. Li and X. Yi and D. Kong and J. Wu and J. Lin. "APSK Modulated CO-OFDM System With Increased Tolerance Toward Fiber Nonlinearity". In: *IEEE Photonics Technology Letters*, vol. 24, no. 13, pp. 1085-1087, July 2012.
- [770] C. Do and A. Tran and C. Zhu and S. Chen and L. Du and T. Anderson and A. Lowery. "PMD Monitoring in 16-QAM Coherent Optical System using Golay Sequences". In: *OECC*, no. 6B3-5, pp. 767-768, July 2012.
- [771] I. Aldaya and G. Campuzano and G. Castanon. "Generation of OFDM Signals in the 60 GHz Band Using the Sideband Injection Locking Technique for Radio over Fiber". In: *ICTON*, no. Tu.P.18, pp. 1-4, July 2012.

- [772] T. Iida and A. Mizutori and M. Koga. "Optical diversity transmission and maximum ratio combine in multi-core fiber to mitigate fiber non-linear distortion". In: OECC, no. 6B2-5, pp. 757-758, July 2012.
- [773] A. Amin and G. Gao and X. Chen and A. Li and W. Shieh. "Performance of Adaptive Optical Transmission by Orthogonal Frequency-Shift Keying". In: IEEE Photonics Technology Letters, vol. 24, no. 13, pp. 1079 - 1081, July 2012.
- [774] F. Parmigiani and J. Kakande and L. Jones and P. Petropoulos and D. Richardson. "Packet Compression of Complex Modulation Formats Based on Coherent Optical Superposition". In: ICTON, no. Mo.B2.3, pp. 1-4, July 2012.
- [775] I. Kim and O. Vassilieva and P. Palacharla and M. Sekiya. "Feed-forward Optical Carrier Phase Noise Compensation in M-QAM Transmitter". In: OECC, no. 4B2-1, pp. 148-149, July 2012.
- [776] J. Yang and Y. Akasaka and M. Sekiya. "Optical QPSK Regeneration Using Dual-Pump Degenerate Phase-Sensitive Amplification". In: OECC, no. 6F2-4, pp. 907-908, July 2012.
- [777] C. Yang and F. Zhang and Z. Chen and Z. Wang. "A New Nonlinearity Compensation Method for Coherent Optical OFDM Systems". In: OECC, no. P1-9, pp. 325-326, July 2012.
- [778] K. Kuzmin and A. Richter and I. Koltchanov and H. Louchet and N. Karelin. "Phase Noise Performance of the Multilevel Interferometric Direct Detection Receivers". In: ICTON, no. Tu.C1.4, pp. 1-4, July 2012.
- [779] M. Abbade and L. Galdino and N. Ribeiro and J. Marconi and L. Bonani and E. Moschim. "An All-Optical OCDMA Encoder with Simultaneous Signal Regeneration based on Cross-Gain Modulation in Semiconductor Optical Amplifiers". In: ICTON, no. Tu.P.15, pp. 1-4, July 2012.
- [780] N. Karelin and A. Richter and I. Koltchanov and S. Mingaleev and H. Louchet and K. Kuzmin. "Dual-Time-Scale Simulation of Dynamics and Reconfiguration of Fiber Optical Networks". In: ICTON, no. Mo.C1.5, pp. 1-4, July 2012.
- [781] A. Pinto and F. Guiomar. "Flexible Optical Receivers". In: ICTON, no. Tu.C1.3, pp. 1-4, July 2012.
- [782] Y. Gao and A. Lau and C. Lu. "Cycle-slip resilient carrier phase estimation for polarization multiplexed 16-QAM systems". In: OECC, no. 4B2-4, pp. 154-155, July 2012.
- [783] M. Medeiros and M. Thakur and P. Laurencio and J. Mitchell. "Transmission Limitations of WiMax over Fibre Transmission Employing Optical Up-Conversion Schemes". In: ICTON, no. Th.A3.3, pp. 1-4, July 2012.
- [784] J. Li and X. Zhang and B. Hraimel and T. Ning and L. Pei and K. Wu. "Performance Analysis of a Photonic-Assisted Periodic Triangular-Shaped Pulses Generator". In: Journal of Lightwave Technology, vol. 30, no. 11, pp. 1617 - 1624, June 2012.
- [785] H. Ahmed and M. Almaleeh and H. Fadhil and S. Aljunid and A. Babiker and N. Saad. "Performance Analysis of Optical CDMA System Using VC Code Family Under Various Optical Parameters". In: Journal of Engineering Science and Technology, vol. 7, no. 3, pp. 303 - 321, June 2012.
- [786] F. Khan and T. Shen and Y. Zhou and A. Lau and C. Lu. "Optical Performance Monitoring Using Artificial Neural Networks Trained With Empirical Moments of Asynchronously Sampled Signal Amplitudes". In: IEEE Photonics Technology Letters, vol. 24, no. 12, pp. 982-984, June 2012.
- [787] V. Kozlov and J. Nuno and J. Ania-Castanon and S. Wabnitz. "Multichannel Raman polarizer with suppressed relative intensity noise for wavelength division multiplexing transmission lines". In: Optics Letters, vol. 37, no. 11, pp. 2073-2075, June 2012.
- [788] R. Guemri and H. Liu and I. Jager and D. Bourreau and C. Karnfelt and F. Lucarz. "Radio-over-Fibre Transmission of Multiple Wireless Standards for Digital Cities: Exploiting the New Tramway Infrastructure". In: ACCESS - International Conference on Access Networks, pp. 1 - 6, June 2012.

- [789] S. Cao and C. Yu and P. Kam. "Decision-Aided Joint Compensation of Transmitter IQ Mismatch and Phase Noise for Coherent Optical OFDM". In: IEEE Photonics Technology Letters, vol. 24, no. 12, pp. 1066-1068, June 2012.
- [790] R. Vilar and F. Ramos and J. Marti. "160-Gb/s optical OFDM demultiplexer based on photonic ring resonators". In: NOC - European Conference on Networks and Optical Communications, pp. 1 - 5, June 2012.
- [791] J. Marconi and M. Abbade and A. Costa and E. Moschim and H. Fragnito. "Experimental Analysis of All-optical 4-ASK Signal Generation through Parametric Amplification". In: Journal of Microwaves, Optoelectronics and Electromagnetic Applications, vol. 11, no. 1, pp. 174-191, June 2012.
- [792] F. Guiomar and A. Pinto. "Receiver-side digital signal processing for 100-GE coherent optical transmission systems". In: NOC - European Conference on Networks and Optical Communications, pp. 1 - 6, June 2012.
- [793] C. Chen and C. Zhang and K Qiu. "OCDMA-based 60-GHz radio-over-fiber system for next generation wireless access networks". In: ICMMT - International Conference on Microwave and Millimeter Wave Technology, no. 4, pp. 1 - 4, May 2012.
- [794] C. Chow and C. Yeh and Y. Lin. "Method to improve the spectral efficiency of heterogeneous optical wired and wireless long-reach access network". In: COIN - International Conference on Optical Internet, pp. 42 - 43, May 2012.
- [795] P. Xiang and X. Zheng and H. Zhang and Y. Li and R. Wang. "Photonic generation of frequency-coded microwave signals using a polarization modulator and equivalent-chirped sampled Bragg gratings". In: HSIC - International High Speed Intelligent Communication Forum, pp. 1 - 4, May 2012.
- [796] P. Xiang and X. Zheng and H. Zhang and Y. Li and R. Wang. "A novel approach to photonic generation of high speed PPM coded UWB signals". In: ICMMT - International Conference on Microwave and Millimeter Wave Technology, pp. 1 - 4, May 2012.
- [797] A. Molina and C Rodriguez and A. Soto. "Benefits and drawbacks of SPM in single-channel 10 Gb/s DPSK transmission". In: COLCOM - IEEE Colombian Communications Conference, pp. 1 - 5, May 2012.
- [798] C. Rodriguez and A. Soto and A. Molina. "DPSK for optical access networks". In: COLCOM - IEEE Colombian Communications Conference, pp. 1 - 5, May 2012.
- [799] T. Cseh and T. Bercei. "Optical transmission of OFDM NQAM signals by direct laser modulation". In: MIKON - International Conference on Microwave Radar and Wireless Communications, pp. 523 - 526, May 2012.
- [800] S. Dris and I. Lazarou and P. Bakopoulos and H. Avramopoulos. "Frequency Offset Estimation in M-QAM coherent optical systems using phase entropy". In: CLEO, pp. 1 - 2, May 2012.
- [801] N. Madamopoulos and S. Peiris and N. Antoniadis and D. Richards and B. Pathak and G. Ellinas and R. Dorsinville and M. Ali. "A Fully Distributed 10G-EPON-based Converged Fixed-Mobile Networking Transport Infrastructure for Next Generation Broadband Access". In: Journal of Optical Communications and Networking, vol. 4, no. 5, pp. 366-377, May 2012.
- [802] A. Rahim and S. Schwarz and J. Bruns and K. Voigt and D. Kroushkov and M. Arnous and C. Schaeffer and K. Petermann. "Finite Impulse Response Filter Using 4-Port MMI Couplers for Residual Dispersion Compensation". In: Journal of Lightwave Technology, vol. 30, no. 7, pp. 990-996, April 2012.
- [803] S. Mingaleev and E. Sokolov and C. Arellano and I. Koltchanov and A. Richter. "Towards system-level modeling of large-scale active photonic integrated circuits, Recent advances and remaining challenges". In: ECIO, April 2012.
- [804] Y. Hwang and S. Tsai and Y. Chen. "Design and implementation of an optical OFDM baseband receiver in FPGA". In: VLSI-DAT - International Symposium on VLSI Design, Automation and Test, pp. 1 - 4, April 2012.

- [805] G. Jacobsen and T. Xu and S. Popov and J. Li and A. Friberg and Y. Zhang. "EPPN and CD study for coherent optical nPSK and nQAM systems with RF pilot based phase noise compensation". In: Optics Express, vol. 20, no. 8, pp. 8862-8870, April 2012.
- [806] Y. Yu and J. Dong and X. Li and X. Zhang. "UWB Monocycle Generation and Bi-Phase Modulation Based on Mach-Zehnder Modulator and Semiconductor Optical Amplifier". In: IEEE Photonics Journal, vol. 4, no. 2, pp. 327 - 339, April 2012.
- [807] Y. Zhang and M. Arabaci and I. Djordjevic. "Evaluation of four-dimensional nonbinary LDPC-coded modulation for next-generation long-haul optical transport networks". In: Optics Express, vol. 20, no. 8, pp. 9296-9301, April 2012.
- [808] C. Sheng and S. Sun and L. Li and J. Li and Q. You and D. Liu. "All-optical in-band optical signal-to-noise monitoring method based on degenerated four-wave mixing". In: IET Optoelectronics, vol. 6, no. 2, pp. 107 - 109, April 2012.
- [809] M. Li and N. Deng and F. Hauske and Q. Xue and X. Shi and Z. Feng and S. Cao and Q. Xiong. "Optical Burst-mode Coherent Receiver with a Fast Tunable LO for Receiving Multi-wavelength Burst Signals". In: OFC/NFOEC, no. OTu1G.3, March 2012.
- [810] T. Chen and A. Fang and X. Yang and W. Hu. "Self-adaptive diversity reception of ultra-low-power signal for FSO communication system". In: Electronics Letters, vol. 48, no. 7, pp. 385 - 387, March 2012.
- [811] S. Fan and Y. Hsueh and J. Liu and H. Chien and A. Stark and S. Ralph and G. Chang. "Optically Demultiplexed Orthogonal Wavelength Division Multiplexing for Terabit Networking Systems". In: OFC/NFOEC, no. OW11.1, March 2012.
- [812] M. Chughtai and M. Forzati and J. Martensson and D. Rafique. "Influence of polarization state, baud rate and PMD on non-linear impairments in WDM systems with mixed PM (D)QPSK and OOK channels". In: Optics Express, vol. 20, no. 7, pp. 8155-8160, March 2012.
- [813] W. Ng and A. Aziz and Z. Ghassemlooy and M. Aly and R. Ngah. "Optimised non-uniform biasing technique for a highspeed optical router to achieve uniform semiconductor optical amplifier gain". In: IET Communications, vol. 6, no. 5, pp. 484 - 491, March 2012.
- [814] C. Chow and C. Yeh and C. Huang and J. Shi and C. Pan. "Optical carrier distributed network with 0.1 THz short-reach wireless communication system". In: OFC/NFOEC, pp. 1 - 3, March 2012.
- [815] Q. Sui and A. Lau and C. Lu. "Fast and robust chromatic dispersion estimation using auto-correlation of signal power waveform for DSP based-coherent systems". In: OFC/NFOEC, pp. 1 - 3, March 2012.
- [816] Y. Ye and L. Binh and E. Zhou and T. Wu and S. Zhang and X. Xu. "A Simple Criterion for Performance Estimation of 112Gb/s PDM-QPSK WDM System over Uncompensated Links". In: OFC/NFOEC, no. JW2A.45, March 2012.
- [817] A. Lowery. "Sensitivity to Phase Errors of Fourier Transforms using Arrayed Waveguide Grating Routers for Optical OFDM". In: OFC/NFOEC, no. JTh2A.7, March 2012.
- [818] C. Do and C. Zhu and A. Tran and S. Chen and T. Anderson and D. Hewitt and E. Skafidas. "Chromatic Dispersion Estimation in 40 Gb/s Coherent Polarization-Multiplexed Single Carrier System using Complementary Golay Sequences". In: OFC/NFOEC, no. OW4G.1, March 2012.
- [819] C. Yeh and C. Chow and H. Chen. "Adaptive 6.25-40 Gb/s downstream rate using four-band OFDM channels within 10 GHz bandwidth for long-reach PON access". In: OFC/NFOEC, no. JTh2A.51, March 2012.
- [820] T. Huynh and L. Nguyen and L. Barry. "Novel coherent self-heterodyne receiver based on phase modulation detection". In: Optics Express, vol. 20, no. 6, pp. 6610-6615, March 2012.

- [821] D. Rafique and A. Ellis. "Nonlinearity Compensation via Spectral Inversion and Digital Back-Propagation: A Practical Approach". In: OFC/NFOEC, no. OM3A.1, March 2012.
- [822] S. Dris and I. Lazarou and P. Bakopoulos and H. Avramopoulos. "Phase Entropy-Based Frequency Offset Estimation for Coherent Optical QAM Systems". In: OFC/NFOEC, no. OTu2G.4, March 2012.
- [823] D. Kroushkov and S. Warm and K. Petermann. "A Simple Estimation of XPM and XPolM Induced Penalties in Hybrid OOK-PSK Systems". In: OFC/NFOEC, no. OTu1A.3, March 2012.
- [824] L. Liu and M. Zhang and M. Liu and W. Yang and X. Zhang. "Design and analysis of an orthogonal frequency division multiplexing millimeter wave signal generation and distribution with dual driver Mach-Zehnder modulator and semiconductor optical amplifier". In: Optical Engineering, vol. 51, no. 3, pp. 035001-1 - 035001-8, March 2012.
- [825] L. Liu and L. Li and Y. Huang and K. Cui and Q. Xiong and F. Hauske and C. Xie and Y. Cai. "Baud-Rate Back-propagation for Intra-channel Nonlinear Impairments Compensation". In: OFC/NFOEC, no. OM3A.7, March 2012.
- [826] Y. Zhang and M. Arabaci and I. Djordjevic. "Rate-Adaptive Four-Dimensional Nonbinary LDPC-Coded Modulation for Long-Haul Optical Transport Networks". In: OFC/NFOEC, no. JW2A.46, March 2012.
- [827] C. Sanchez and B. Ortega and J. Capmany. "OFDM-IDMA for Uplink Transmission in Passive Optical Networks". In: IEEE Photonics Journal, vol. 4, no. 1, pp. 1 - 13, February 2012.
- [828] Y. Huang and E. Ip and T. Xia and G. Wellbrock and M. Huang and Y. Aono and T. Tajima and M. Cvijetic. "Mixed Line-Rate Transmission (112-Gb/s, 450-Gb/s, and 1.15-Tb/s) Over 3560 km of Field-Installed Fiber With Filterless Coherent Receiver". In: Journal of Lightwave Technology, vol. 30, no. 4, pp. 609 - 617, February 2012.
- [829] D. Kroushkov and S. Warm and M. Winter and K. Petermann. "Simple Estimation of the XPM-Induced Phase Error Variance in Hybrid OOK-PSK Systems". In: IEEE Photonics Technology Letters, vol. 24, no. 9, pp. 733 - 735, February 2012.
- [830] L. Liu and L. Li and Y. Huang and K. Cui and Q. Xiong and F. Hauske and C. Xie and Y. Cai. "Intrachannel Nonlinearity Compensation by Inverse Volterra Series Transfer Function". In: Journal of Lightwave Technology, vol. 30, no. 3, pp. 310-316, February 2012.
- [831] C. Zhang and C. Chen and J. Huang and K. Qiu. "Performance Improvement of Optical OFDMA-PON Using Data Clipping and Additional Phases". In: IEEE Photonics Technology Letters, vol. 24, no. 4, pp. 255-257, February 2012.
- [832] A. Caballero and D. Zibar and R. Sambaraju and J. Marti and I. Monroy. "High-Capacity 60 GHz and 75-110 GHz Band Links Employing All-Optical OFDM Generation and Digital Coherent Detection". In: Journal of Lightwave Technology, vol. 30, no. 1, pp. 147-155, January 2012.
- [833] C. Arellano and S.F. Mingaleev and E. Sokolov and I. Koltchanov and A. Richter. "Time-and-frequency-domain modeling (TFDM) of hybrid photonic integrated circuits". In: Photonics West, no. 8265, 82650K, January 2012.
- [834] P. Chowdhury and M. Tornatore and A. Nag and E. Ip and T. Wang and B. Mukherjee. "On the Design of Energy-Efficient Mixed-Line-Rate (MLR) Optical Networks". In: Journal of Lightwave Technology, vol. 30, no. 1, pp. 130-139, January 2012.
- [835] Neo Antoniadou and Georgios Ellinas and Ioannis Roudas (editors). "WDM Systems and Networks - Modeling, Simulation, Design and Engineering". In: OECC, no. 5B1-5, pp. 447-448, January 2012.
- [836] Y. Hong and A. Lowery and E. Viterbo. "Sensitivity improvement and carrier power reduction in direct-detection optical OFDM systems by subcarrier pairing". In: Optics Express, vol. 2, no. 2, pp. 1635-1648, January 2012.

- [837] A. Richter and C. Arellano and S. Mingaleev and E. Sokolov and I. Koltchanov. "Detailed Modeling of Integrated IQ-Transmitters for 100G+ Applications". In: Photonics West, no. 8284, 82840L, January 2012.
- [838] C. Stamatidis and F. Gomez-Agis and L. Stampoulidis and K. Vyrsoinos and I. Lazarou and H. Dorren and L. Zimmermann and K. Voigt and D. Thourhout and P. Heyn and H. Avramopoulos. "The BOOM Project: Towards 160 Gb/s Packet Switching Using SOI Photonic Integrated Circuits and Hybrid Integrated Optical Flip-Flops". In: Journal of Lightwave Technology, vol. 30, no. 1, pp. 22-30, January 2012.

2011

- [839] L. Chen and B. Krongold and J. Evans. "A Tone Reservation based Optical OFDM System for Short-range IM/DD Transmission". In: *Journal of Lightwave Technology*, vol. 29, no. 24, pp. 3824 - 3833, December 2011.
- [840] Y. Huang and E. Ip and Z. Wang and M. Huang and Y. Shao and T. Wang. "Transmission of Spectral Efficient Super-Channels Using All-Optical OFDM and Digital Coherent Receiver Technologies". In: *Journal of Lightwave Technology*, vol. 29, pp. 3838-3844, December 2011.
- [841] P. Assimakopoulos and A. Nkansah and N. Gomes and D. Wake. "Multi-channel signal transmission through radio over fiber architecture". In: *IEEEGlobeCom*, pp. 152-156, December 2011.
- [842] Z. Liu and M. Violas and N. Carvalho. "Transmission of four channels SCM over fiber and nonlinear compensation for RSOA external modulators". In: *GC Wkshps - IEEE GLOBECOM Workshops*, pp. 147 - 151, December 2011.
- [843] C. Zhang and C. Chen and J. Huang and K. Qiu. "Novel Approach for Performance Improvement of Optical OFDMA-based PON Using Data Clipping and Additional Phases". In: *IEEE Photonics Technology Letters*, vol. 23, December 2011.
- [844] D. Rafique and A. Ellis. "Various Nonlinearity Mitigation Techniques Employing Optical and Electronic Approaches". In: *IEEE Photonics Technology Letters*, vol. 23, pp. 1838-1840, December 2011.
- [845] E. Pincemin and N. Boudrioua and J. Turkiewicz and T. Guillosoy. "40 Gbps WDM Transmission Performance Comparison Between Legacy and Ultra Low Loss G.652 Fibers". In: *Journal of Lightwave Technology*, vol. 29, pp. 3587 - 3598, December 2011.
- [846] C. Yeh and C. Chow and Y. Liu and C. Pan. "40 Gb/s on-off keying downstream and 10 Gb/s on-off keying remodulated upstream signals in long-reach access network with multivideo services". In: *Optical Engineering*, vol. 50, no. 12, pp. 125008-1 - 125008-4, December 2011.
- [847] P. Jiang and Y. Song and W. Han and L. Zhang. "A novel OFDM-PON architecture based on all-optical waveform and flat frequency comb generation for 100 GB/S optical access". In: *CCWMC - IET International Communication Conference on Wireless Mobile and Computing*, pp. 164 - 168, November 2011.
- [848] K. Khairi and Z. Lambak and A. Ahmad and M. Kadir and Z. Hamzah and D. Tarsono and Z. Manaf and R. Mohamad and M. Rahman and N. Samsuri and K. Fong. "Investigation on the Upgrade of Existing 10Gbps Metro DWDM Networks to 40Gbps Based On Measured PMD Data of Deployed Fiber in Malaysia". In: *ACP*, no. 8309_110, November 2011.
- [849] F. Karinou and I. Roudas and K. Vlachos and B. Hemenway and R. Grzybowski. "Influence of Transmission Impairments on the OSMOSIS HPC Optical Interconnect Architecture". In: *Journal of Lightwave Technology*, vol. 29, pp. 3167-3177, November 2011.
- [850] S. Papaioannou and K. Vysokinos and O. Tsilipakos and A. Pitolakis and K. Hassan and J. Weeber and L. Markey and A. Dereux and S. I. Bozhevolnyi and A. Miliou and E. E. Kriezis and N. Pleros. "A 320 Gb/s-Throughput Capable 2x2 Silicon-Plasmonic Router Architecture for Optical Interconnects". In: *Journal of Lightwave Technology*, vol. 29, pp. 3185-3195, November 2011.
- [851] S. Yingxiong and C. Xiang and L. Yingchun. "Optical 16QAM modulation based on DD-MZM in radio-over-fiber system". In: *CCWMC - IET International Communication Conference on Wireless Mobile and Computing*, pp. 371 - 374, November 2011.
- [852] X. Guo and R. Lin and Y. Tan and S. Zhou and J. Zhang. "Analysis of Nonlinear Effects in RSOA-Based OFDM-PON". In: *ACP*, no. 8309_77, November 2011.

- [853] T.Huynh and L. Nguyen and K. Shi and L.Barry. "Coherent Phase Modulation Detection for Self-Heterodyne Phase Noise Measurement". In: ACP, no. 8309_73, November 2011.
- [854] C.Do and A. Tran and D. Hewitt. "Chromatic dispersion estimation based on complementary Golay sequences for 80 Gb/s QPSK single-carrier system with frequency domain equalization". In: ATNAC - Australasian Telecommunication Networks and Applications Conference, pp. 1 - 4, November 2011.
- [855] Y. Bao and W. Lin and J. Fu and T. Gui and L. Yang and Z. Li and B. Guan. "50Gbps DDO-OFDM Transmission After 80km Without DCF Based on An Electro-absorption Modulator". In: ICOCN, pp. 1-2, November 2011.
- [856] L. Mehedy and M. Bakaul and A. Nirmalathas and E. Skafidas. "Scalable and Spectrally Efficient Long-Reach Optical Access Networks Employing Frequency Interleaved Directly Detected Optical OFDM". In: Journal of Optical Communications and Networking, vol. 3, no. 11, pp. 881-889, November 2011.
- [857] Y. Zeng and N. Hua and Xi. Zheng and H. Zhang and B. Zhou and Y. Xie. "Performance Analysis of the LCoS-Based Switching Nodes in Elastic Optical Path Network". In: ACP, no. 8309_108, November 2011.
- [858] Y. Zhan and M. Zhang and M. Liu and L. Liu and X. Chen. "A Scheme of Optical 16-QAM Signal Generation Based on Nest-SOA-MZI". In: ACP, no. 8309_90, November 2011.
- [859] M. Belkin and L. Belkin and A. Loparev and V. Iakovlev and G. Suruceanu and A. Mereuta and A. Caliman and A. Sirbu and E. Kapon. "Microwave-band optoelectronic frequency converters based on long wavelength VCSELs". In: COMCAS, pp. 1-5, November 2011.
- [860] M. Belkin and A. Loparev and Y. Semenova and G. Farrell and A. Sigov. "Tunable RF-Band optoelectronic oscillator and optoelectronic computer-aided design model for its simulation". In: Microwave and Optical Technology Letters, vol. 53, no. 11, pp. 2474-2477, November 2011.
- [861] X. Zhang and Q. Yang and Z. Yang. "D-mPSK-PolSK toward cost-effective application of polarization". In: ACP, no. 8309_57, pp. 1 - 6, November 2011.
- [862] K. Qiu and X. Yi and J. Zhang and H. Zhang and M. Deng and C. Zhang. "OFDM-PON Optical Fiber Access Technologies". In: ACP, no. 8309_74, November 2011.
- [863] S. Cui and S. Sun and L. Li and C. Ke and Z. Wan and D. Liu. "All-Optical Highly Sensitive Chromatic Dispersion Monitoring Method Utilizing Phase-Matched Four-Wave Mixing". In: IEEE Photonics Technology Letters, vol. 23, pp. 1724-1726, November 2011.
- [864] T. Xu and G. Jacobsen and S. Popov and J. Li and A. Friberg and Y. Zhang. "Phase noise mitigation in coherent transmission system using a pilot carrier". In: ACP, no. 8309_35, November 2011.
- [865] Y. Xu and Y. Qiao and Y. Ji. "Symbol timing synchronization algorithm for 112Gbit/s PDM". In: ACP, no. 8309_17, November 2011.
- [866] S. Zhou and Y. Song and Y. Tan and L. Zhang and Y. Li and J. Ye and R. Lin. "Performance of optical OFDM transmission over RoF system with Mach-Zehnder modulator". In: ACP, no. 8309_40, November 2011.
- [867] H. Louchet and A. Richter. "Pitfalls when simulating 40/100G upgrade of legacy 10G WDM transmission systems". In: ACP, no. 8309-53, 8309, 83091H, November 2011.
- [868] T. Huynh and L. Nguyen and L. Barry. "Coherent Optical Receiver using Phase Modulation Detection". In: Photonics Conference, no. ThL5, October 2011.
- [869] M. Sakib and T. Huang and W. Gross and O. Liboiron-Ladouceur. "Low-Density Parity-Check Coding in Ultra-Wideband-Over-Fiber Systems". In: IEEE Photonics Technology Letters, vol. 23, pp. 1493-1495, October 2011.

- [870] E. Moghaddam and J. Tapolcai and D. Mazroa and E. Hosszu. "Physical impairment of monitoring trails in all optical transparent networks". In: ICUMT - International Congress on Ultra Modern Telecommunications and Control Systems and Workshops, pp. 1 - 7, October 2011.
- [871] J. Wang and Z. Kang and N. Zou. "Research on indoor visible light communication system employing white LED lightings". In: ICCTA - International Conference on Communication Technology and Application, pp. 934 - 937, October 2011.
- [872] D. Rafique and A. Ellis. "Comparitive Analysis on the Mitigation of Intra Channel Nonlinearities in WDM Mesh Networks". In: Photonics Conference, no. ThT2, October 2011.
- [873] E. Fagotto and M. Abbade. "Wavelength-Shift-Free All-Optical 2R Regeneration via Four-Wave Mixing". In: Photonics Conference, no. WU1, October 2011.
- [874] C. Stamatiadis and K. Vyrsoinos and L. Stampoulidis and I. Lazarou and A. Maziotis and J. Bolten and M. Karl and T. Wahlbrink and P. DeHeyn and Z. Sheng and D. VanThourhout and H. Avramopoulos. "Silicon-on-Insulator Nanowire Resonators for Compact and Ultra-High Speed All-Optical Wavelength Converters". In: Journal of Lightwave Technology, vol. 29, pp. 3054 - 3060, October 2011.
- [875] T. Kanai and T. Yamada and T. Kubo and H. Hadama. "Coexistence-type 40G-class WDM/TDM-PON employing short wavelength region (1.1 1.2 um) with direct laser modulation". In: Photonics Conference, pp. 939 - 940, October 2011.
- [876] H. Hajjar and B. Fracasso and D. Leroux. "Fiber-distributed indoor high bitrate optical wireless system". In: WPMC - International Symposium on Wireless Personal Multimedia Communications, pp. 1 - 5, October 2011.
- [877] S. Cao and C. Yu and P. Kam. "Decision-aided joint compensation of channel distortion and transmitter IQ imbalance for coherent optical OFDM". In: MWP/APMP, pp. 312 - 315, October 2011.
- [878] B. Olsson and J. Martensson and A. Alping. "RF-assisted transmitter and receiver for 100G optical transmission". In: MWP/APMP - Microwave Photonics, International Topical Meeting on & Microwave Photonics Conference, Asia-Pacific, pp. 180 - 183, October 2011.
- [879] B. Olsson and J. Martensson and A. Alping and A. Djupsjoebacka and A. Rhodin. "112-Gb/s RF-Assisted Multicarrier DP-16-QAM Optical Transmission Over Field Deployed Fiber Link". In: IEEE Photonics Technology Letters, vol. 23, pp. 1367-1369, October 2011.
- [880] J. Chen and L. Wosinska and M. Chughtai and Marco Forzati. "Scalable Passive Optical Network Architecture for Reliable Service Delivery". In: Journal of Optical Communications and Networking, vol. 3, no. 09, pp. 667-673, September 2011.
- [881] M. Fok and Z. Wang and Y. Deng and P. Prucnal. "Optical Layer Security in Fiber-Optic Networks". In: IEEE Transactions on Information Forensics and Security, vol. 6, no. 3, pp. 725 - 736, September 2011.
- [882] H. Khaleghi and P. Morel and A. Sharaiha and T. Rampone and M. Guegan. "SOA Modeling for Advanced Optical Modulation Formats". In: NUSOD, pp. 97 - 98, September 2011.
- [883] H. Chung and S. Chang and K. Kim. "Companding Transform based SPM Compensation in Coherent Optical OFDM Transmission". In: ECOC, no. We.9.A.4, September 2011.
- [884] A. Caballero and D. Zibar and R. Sambaraju and N. Gonzalez and I. Monroy. "Engineering Rules for Optical Generation and Detection of High Speed Wireless Millimeter-wave Band Signals". In: ECOC, no. We.10.P1.115, September 2011.
- [885] Y. Hong and E. Viterbo and A. Lowery. "Improving the Sensitivity of Direct-Detection Optical OFDM Systems by Pairing of the Optical Subcarriers". In: ECOC, no. Th.11.B.2, September 2011.

- [886] P. Almeida and H. Silva. "Distribution of MB-OFDM UWB and millimeter-wave WPAN signals on hybrid FTTH networks". In: ICUWB - International Conference on Ultra-Wideband, pp. 243 - 247, September 2011.
- [887] P. Frascella and S. Sygletos and A. Ellis. "A Novel Phase Stabilization Scheme for DPSK CoWDM Signals using High Order Four Wave Mixing". In: ECOC, no. We.8.A.2, September 2011.
- [888] W. Nai and D. Dong and W. Zheng and S. Chen. "A Novel Vehicle-to-Infrastructure Communication System Providing Triple Play Services Based on Radio-Over-Fiber Technique". In: WiCOM - International Conference on Wireless Communications, Networking and Mobile Computing, pp. 1 - 4, September 2011.
- [889] D. Rafique and A. Ellis. "Impact of Longitudinal Power Budget in Coherent Systems Employing Digital Back-Propagation". In: ECOC, no. We.10.P1.54, September 2011.
- [890] D. Rafique and A. Ellis. "Nonlinear Penalties in Dynamic Optical Networks Employing Autonomous Transponders". In: IEEE Photonics Technology Letters, vol. 23, pp. 1213-1215, September 2011.
- [891] S. Mingaleev and E. Sokolov and C. Arellano and I. Koltchanov and A. Richter. "Hybrid Time-and-Frequency-Domain Approach for Modeling Photonic Integrated Circuits". In: NUSOD, pp. 183-184, September 2011.
- [892] Y. Cao. "A novel scheme of generating multi-frequency spectral amplitude code labels by employing a single laser and a Fabry-Perot tunable filter". In: ICCT - IEEE International Conference on Communication Technology, pp. 531 - 533, September 2011.
- [893] H. Louchet and A. Richter. "Characterization and Mitigation of Nonlinear Impairments in Multi-Span Transmissions using an Equivalent Single-Span Model". In: ECOC, no. We.10.P1.68, September 2011.
- [894] H. Louchet and A. Juarez and C. Bunge and P. Krummrich and A. Richter and K. Petermann. "Capacity Upgrade of Legacy Fiber Plant using Space Division Multiplexing and Multimode/Multicore EDFAs". In: ECOC, no. We.10.P1.74, September 2011.
- [895] V. Kozlov and S. Wabnitz. "Suppression of Relative Intensity Noise in Fiber-Optic Raman Polarizers". In: IEEE Photonics Technology Letters, vol. 23, no. 15, pp. 1088-1090, August 2011.
- [896] C. Chow and C. Yeh and Y. Wu and Y. Lin and F. Shih and S. Chi. "Rayleigh Backscattering Circumvention in Ring-Based Access Network Using RSOA-ONU". In: IEEE Photonics Technology Letters, vol. 23, pp. 1121-1123, August 2011.
- [897] A. Tait and M. Nahmias and H. Deming and A. Mahmoud and R. Kastner and L. Shayegan and Y. Tian and P. Prucnal. "Integrated Optical Rectifier Based on Microresonator Enhanced Switching". In: MIRTHER Summer Workshop, August 2011.
- [898] M. Beltran and J. Jensen and R. Llorente and I. Monroy. "Experimental Analysis of 60-GHz VCSEL and ECL Photonic Generation and Transmission of Impulse-Radio Ultra-Wideband Signals". In: IEEE Photonics Technology Letters, vol. 23, pp. 1055-1057, August 2011.
- [899] G. Jacobsen and T. Xu and S. Popov and J. Li and A. Friberg and Y. Zhang. "Receiver implemented RF pilot tone phase noise mitigation in coherent optical nPSK and nQAM systems". In: Optics Express, vol. 19, pp. 14487-14494, July 2011.
- [900] E. Giacomidis and I. Tomkos and J. Tang. "Group Delay Ripple Reduction in Cascaded ROADMs by Adaptively Modulated Optical OFDM signals for Metro/Regional Networks". In: NOC - European Conference on Networks and Optical Communications, pp. 88-91, July 2011.
- [901] A. Lowery and L. Du. "All-optical OFDM transmitter design using AWGRs and low-bandwidth modulators". In: Optics Express, vol. 19, pp. 15696-15704, July 2011.

- [902] M. Liu and M. Zhang and L. Liu and W. Yang and X. Chen and Q. Li and P. Ye. "Performance analysis and optimization design: photonic millimeter-wave signal generation using nondegenerate four-wave mixing in semiconductor optical amplifier and distribution over fiber". In: Optical Engineering, vol. 50, no. 7, pp. 075005-1 - 075005-9, July 2011.
- [903] C. Guo and L. Huang and S. He. "Demonstration of 1 Gb/s x 15-User CDM Over WDM-PON Using Electrical Spatial Coding and Subcarrier Multiplexing". In: IEEE Photonics Technology Letters, vol. 23, pp. 953-955, July 2011.
- [904] T. Cseh and E. Udvary. "Cost effective RoF with VCSELs and multimode fiber". In: NOC - European Conference on Networks and Optical Communications, no. BAT - 10, pp. 60 - 63, July 2011.
- [905] S. Cui and L. Li and S. Sun and C. Ke and D. Liu. "Power transfer function-based dispersion monitoring method applicable to signals with different duty cycles and optical signal-to-noise ratio". In: Optical Engineering, vol. 50, no. 7, pp. 075008-1 - 075008-5, July 2011.
- [906] S. Fan and H. Chien and J. Liu and G. Chang. "Toward Terabit Optical Access Network Using Spectrally-efficient, Polarization-Interleaved Orthogonal Wavelength-Division-Multiplexing". In: Photonics Society Summer Topicals, no. MC2.2, July 2011.
- [907] S. Cao and P. Kam and C. YU. "Decision-aided carrier phase estimation for coherent optical OFDM". In: OECC, pp. 425 - 426, July 2011.
- [908] C. Arellano and S. Mingaleev and E. Sokolov and I. Koltchanov and A. Richter. "Efficient Design of Photonic Integrated Circuits". In: ICTON, no. Th.A4.1, June 2011.
- [909] J. Martinez and C. Tsekrekos and I. Tomkos and B. Huiszoon. "Performance evaluation of a multi-layer reconfigurable optical-wireless network architecture employing digitized RoF". In: FutureNetw, pp. 1-8, June 2011.
- [910] A. Villafranca and M. Cabezón and D. Izquierdo and J. Martínez and I. Garcés. "Programmable All-Optical Logic Gates Based on Semiconductor Optical Amplifiers". In: ICTON, no. We.B5.6, June 2011.
- [911] Athanasios Kavatzikidis and Elias Giacomidis and Ioannis Tomkos. "Extensive Study of Intensity Modulated and Direct Detected Electrical OFDM signals for Long Reach and Ultra-High Speed Access Networks". In: IEEE Future Network & MobileSummit, June 2011.
- [912] R. Llorente and N. Medina and M. Morant and F. Boronat. "Evaluation of UHDTV signal transmission in FTTH networks using next generation WiMedia UWB". In: FutureNetw, pp. 1 - 8, June 2011.
- [913] R. Llorente and M. Morant and T. Quinlan and N. Medina and S. Walker. "Optical architectures evaluation for triple-play distribution in FIVER project". In: FutureNetw, pp. 1 - 8, June 2011.
- [914] M. Chughtai and M. Forzati and J. Martensson and D. Rafique. "Dependence of Non-Linear Impairments on Polarization State and Baud Rate in WDM Systems with Mixed DQPSK and OOK Channels". In: ICTON, no. We.D1.6, June 2011.
- [915] E. Giacomidis and A. Kavatzikidis and I. Cano and M. Santos and J. Tang and J. Prat and I. Tomkos. "Mitigation Techniques for Peak-to-Average Power Ratio and Optical Beat Interference in OFDMA-PONs". In: ICTON, no. Tu.C6.3, June 2011.
- [916] M. Milosavljevic and P. Kourtessis and W. Lim and J. Senior. "Next Generation PONs with Wireless Backhauling". In: ICTON, no. Mo.B4.1, June 2011.
- [917] M. Milosavljevic and P. Kourtessis and J. Senior. "Wireless Convergence over Next Generation OFDMA-PONs". In: ANIC, no. ATuB3, June 2011.

- [918] H. Minh and Z. Ghassemlooy and W. Ng. "Investigation of Imperfect Control Pulse Effect on Performance of the All-Optical Pulse-Position-Modulation Routing Scheme". In: ICTON, no. Tu.B1.4, June 2011.
- [919] R. Avo and P. Laurencio and C. Medeiros. "Comparative Study of Optical Up-Conversion Schemes". In: ICTON, no. Tu.A5.3, June 2011.
- [920] Y. Zhang and I. Djordjevic. "High-Speed Long-Haul Optical Transmission Using Four-Dimensional LDPC-Coded Modulation". In: ICTON, no. Th.B3.2, June 2011.
- [921] D. Rafique and M. Mussolin and M. Forzati and J. Martensson and M. Chughtai and A. Ellis. "Modified Split-Step Fourier Method for Compensation of Nonlinear Fibre Impairments". In: ICTON, no. Tu.P.5, June 2011.
- [922] D. Rafique and J. Zhao and A. Ellis. "Fundamental Limitations of Digital Back-Propagation in Coherent Transmission Systems". In: ICTON, no. We.C1.5, June 2011.
- [923] I. Cano and M. Santos and J. Prat and H. Krimmel and T. Kavatzikidis and E. Giacomidis and I. Tomkos. "Physical Layer Evaluation of OFDM-Based Access Networks". In: ICTON, no. Tu.A6.6, June 2011.
- [924] M. Chochol and J. Fabrega. "Frequency Offset Compensation Loop for 16-QAM Optical Coherent Systems". In: ICTON, no. Tu.P.7, June 2011.
- [925] Y. Pei and B. Hraimel and X. Zhang and Y. Shen and K. Xu and J. Wu and J. Lin. "Performance of RF Signal Transmission Over Coherence Multiplexing Systems". In: Journal of Lightwave Technology, vol. 29, pp. 1764-1774, June 2011.
- [926] V. Tavassoli and T. Darcie. "Probability based modeling of cross phase modulation in 16-QAM dispersion compensated coherent systems". In: Optics Express, vol. 19, pp. 13334-13342, June 2011.
- [927] S. Chang and H. Chung and K. Kim. "Optimization of Operating Conditions for 112-Gb/s Polarization-Multiplexed 16-QAM Optical Modulation". In: IEEE Photonics Technology Letters, vol. 23, pp. 724-726, June 2011.
- [928] P. Andrade and M. Lima and A. Teixeira. "Distribution of OFDM radio signals over optical fiber". In: Electronica e Telecomunicacoes, vol. 5, no. 3, pp. 331 - 338, June 2011.
- [929] H. Hajjar and B. Fracasso and D. Leroux. "Fibre-fed multipoint indoor optical wireless system". In: GROWAN - International Symposium on Green Radio over Fibre & All Optical technologies for Access Networks, no. C14, pp. 59 - 62, June 2011.
- [930] C. O'Riordan and S. Fabbri and A. Ellis. "Variable Optical Frequency Comb Source Using a Dual Parallel Mach-Zehnder Modulator". In: ICTON, no. Tu.B1.5, June 2011.
- [931] A. Mishra and I. Nellas and I. Tomkos and C. Koos and W. Freude and J. Leuthold. "Comb Generator for 100 Gbit/s OFDM and Low-loss Comb-Line Combiner Using the Optical Inverse Fourier Transform (IFFT)". In: ICTON, no. We.A1.4, June 2011.
- [932] H. Louchet and A. Richter and I. Koltchanov and S. Mingaleev and N. Karelin and K. Kuzmin. "Comparison of XPM and XpolM-Induced Impairments in Mixed 10G - 100G Transmission". In: ICTON, no. We.B1.1, June 2011.
- [933] P. Kuindersma and X. Leijtens and H. de Waardt. "Design of Optical Pulse Envelope Ring Oscillator (OPERO) and fabrication in Generic InP technology". In: CLEO, no. JTul83, May 2011.
- [934] L. Mehedy and M. Bakaul and A. Nirmalathas. "Single-Channel Directly Detected Optical-OFDM Towards Higher Spectral Efficiency and Simplicity in 100 Gb/s Ethernet and Beyond". In: Journal of Optical Communications and Networking, vol. 3, no. 5, pp. 426-434, May 2011.
- [935] A. Mishra and I. Tomkos. "A novel cost-effective combline generation and cross-talk mitigation in optical OFDM signal using optical iFFT circuits". In: ICT, pp. 107 - 112, May 2011.

- [936] J. Wang and X. He and K. Gao and L. Myers and C. Xie and Z. Pan. "8 x 400-Gbit/s PDM-QPSK with 100 GHz Channel Spacing Over 2000km Transmission Using MAP Detection". In: CLEO, no. CThH3, May 2011.
- [937] Y. Yang and A. Cooper III and J. Khurgin and J. Kang. "Robustness of Coherent SPE-OCDMA to Combined Dispersion Impairments". In: CLEO, no. JWA5, May 2011.
- [938] H. Zheng and B. Chen and D. Wang and X. Hong and S. He. "Investigation of DWDM over OCDMA System Based on Parallely Combined SSFBG Encoder/Decoders". In: SOPO, pp. 1-3, May 2011.
- [939] E. Chan and R. Minasian. "Multiple-Tap, Tunable Microwave Photonic Interference Mitigation Filter". In: Journal of Lightwave Technology, vol. 29, pp. 1069-1076, April 2011.
- [940] P. Laurencio and I. Fortes and M. Guerreiro and M. Medeiros. "Transmission performance of 60 GHz signals generated by OSSB upconversion". In: EUROCON - International Conference on Computer as a Tool, pp. 1 - 4, April 2011.
- [941] C. Peng and K. Shr and M. Lin and Y. Huang. "A baseband receiver for optical OFDM systems". In: VLSI-DAT - International Symposium on VLSI Design, Automation and Test, pp. 1 - 4, April 2011.
- [942] B. Zhao and X. Chen. "A 40Gbps SSB-OFDMA-PON Architecture Using Direct-Detection and Source-Free ONUs Supporting Dynamic Bandwidth Allocation". In: CMC - Third International Conference on Communications and Mobile Computing, pp. 223 - 225, April 2011.
- [943] B. ElRazak and M. Saleh and M. Aly. "Duobinary modulation format and unequal channel spacing integration to suppress four-wave mixing crosstalk in WDM systems". In: SIEPCPC - Saudi International Electronics, Communications and Photonics Conference, pp. 1 - 5, April 2011.
- [944] T. Xu and G. Jacobsen and S. Popov and J. Li and A. Friberg and Y. Zhang. "Analytical estimation of phase noise influence in coherent transmission system with digital dispersion equalization". In: Optics Express, vol. 9, no. 8, pp. 7756-7768, April 2011.
- [945] L. Chen and B. Krongold and J. Evans. "An Optimal Tone Reservation Method for IM/DD Optical OFDM Transmission in Multimode Fiber". In: OFC/NFOEC, no. OMS7, March 2011.
- [946] Y. Hsueh and H. Chien and A. Chowdhury and J. Yu and G. Chang. "Performance Assessment of Radio Links Using Millimeter-Wave Over Fiber Technology With Carrier Suppression Through Modulation Index Enhancement". In: Journal of Optical Communications and Networking, vol. 3, no. 3, pp. 254-258, March 2011.
- [947] A. Caballero and S. Wong and D. Zibar and L. Kazovsky and I. Monroy. "Distributed MIMO Antenna Architecture for Wireless-over-Fiber Backhaul with Multicarrier Optical Phase Modulation". In: OFC/NFOEC, no. OWT8, March 2011.
- [948] N. Fehratovic and S. Aleksic. "Power Consumption and Scalability of Optically Switched Interconnects for High-Capacity Network Elements". In: OFC/NFOEC, no. JWA84, March 2011.
- [949] M. Sakib and O. Liboiron-Ladouceur and X. Zhang. "Impact of RF Noise on Transmission Performance of Multiband OFDM UWB over Fiber Systems". In: OFC/NFOEC, no. JWA41, pp. 1 - 3, March 2011.
- [950] Z. Wang and Y. Huang and E. Ip and P. Prucnal and T. Wang. "Performance Investigation of Polarization-Multiplexed 16-QAM using All-Optical OFDM Transmission and Digital Coherent Detection". In: OFC/NFOEC, no. OMS5, March 2011.
- [951] C. Wang and L. Yang and C. Chow and C. Yeh and S. Chi. "Comparison of Two CS-SSB Modulators Used in Bidirectional Carrier Distributed Long-Reach Passive Optical Network". In: OFC/NFOEC, no. JWA77, March 2011.

- [952] A. Gumaste and K. Pulverer and A. Texiera and S. Wey and A. Nouroozifar. "OLARP: Open Lambda Assignment and Routing Problem - Bandwidth Multiplier for Metro and Access Networks". In: OFC/NFOEC, no. OTh11, March 2011.
- [953] L. Tao and Y. Shao and J. Zhang and J. Zhu and N. Chi. "A Modulation Scheme for 100Gb/s Minimum-Shift Keying Format based on Imbalanced Bias in IQ Components". In: OFC/NFOEC, no. JThA43, March 2011.
- [954] J. Zhang and I. Djordjevic. "Optimum Signal Constellation Design for Rotationally Symmetric Optical Channel with Coherent Detection". In: OFC/NFOEC, no. OTh03, March 2011.
- [955] D. Rafique and A. Ellis. "The Impact of Signal-ASE Four-Wave Mixing in Coherent Transmission Systems". In: OFC/NFOEC, no. OTh02, March 2011.
- [956] D. Rafique and J. Zhao and A. Ellis. "Performance Improvement by Fibre Nonlinearity Compensation in 112 Gb/s PM M-ary QAM". In: OFC/NFOEC, no. OW06, March 2011.
- [957] B. Hraimel and X. Zhang and Y. Pei and K. Wu and T. Liu and T. Xu and Q. Nie. "Optical Single-Sideband Modulation With Tunable Optical Carrier to Sideband Ratio in Radio Over Fiber Systems". In: Journal of Lightwave Technology, vol. 29, pp. 775-781, March 2011.
- [958] N. Neumann and R. Herschel and T. Schuster and D. Plettemeier and C. Schaeffer. "Dispersion Estimation via Vestigial Sideband Filtering Using an Optical Delay Line Filter". In: Journal of Optical Communications and Networking, vol. 3, pp. 155-161, February 2011.
- [959] M. Milosavljevic and P. Kourtessis and J. Senior. "Multi-Wavelength WiMAX-PONs With Overlapping Cells". In: Journal of Optical Communications and Networking, vol. 3, no. 2, pp. 172-177, February 2011.
- [960] L. Liu and M. Zhang and M. Liu and X. Zhang and P. Ye. "Design and analysis of flexible colorless remote node using RSOA-assisted Michelson interferometer". In: Chinese Optics Letters, vol. 9, no. 2, pp. 020606-1 - 020606-4, February 2011.
- [961] P. Silva. "Multiservices and multiband optical signal generation for hybrid access networks". In: ONDM, pp. 1 - 6, February 2011.
- [962] D. Rafique and A. Ellis. "Impact of signal-ASE four-wave mixing on the effectiveness of digital back-propagation in 112 Gb/s PM-QPSK systems". In: Optics Express, vol. 19, pp. 3449-3454, February 2011.
- [963] M. Othman and J. Jensen and X. Zhang and I. Monroy. "Performance evaluation of spectral amplitude codes for OCDMA PON". In: ONDM, pp. 1 - 5, February 2011.
- [964] A. Richter and H. Louchet and C. Arellano and J. Farina and I. Koltchanov. "Multi-layer photonics modeling framework for the design, analysis, and optimization of devices, links, and networks". In: Photonics West, no. 7959-20, 7959, 79590L, January 2011.
- [965] F. N. Khan and Alan Pak Tao Lau and Chao Lu and P. K. A. Wai. "Chromatic dispersion monitoring for multiple modulation formats and data rates using sideband optical filtering and asynchronous amplitude sampling technique". In: Optics Express, vol. 19, no. 2, pp. 1007, January 2011.
DOI: 10.1364/oe.19.001007
- [966] M. Awad and I. Dayoub and W. Hamouda and J. Rouvaen. "Adaptation of the Mode Group Diversity Multiplexing Technique for Radio Signal Transmission Over Multimode Fiber". In: Journal of Optical Communications and Networking, vol. 3, no. 1, pp. 1-9, January 2011.
- [967] D. Monoyios and K. Vlachos. "Multiobjective Genetic Algorithms for Solving the Impairment-Aware Routing and Wavelength Assignment Problem". In: Journal of Optical Communications and Networking, vol. 3, no. 1, pp. 40-47, January 2011.

- [968] E. Mateo and X. Zhou and G. Li. "Selective Post-Compensation of Nonlinear Impairments in Polarization-Division Multiplexed WDM Systems with Different Channel Granularities". In: IEEE Journal of Quantum Electronics, vol. 47, pp. 109-116, January 2011.
- [969] C. Arellano and S. Mingaleev and E. Sokolov and I. Koltchanov and A. Richter. "Design of complex large-scale photonic integrated circuits (PICs) based on ring-resonator structures". In: Photonics West, no. 7933-23, 7933, 79330U, January 2011.

2010

- [970] M. Liu and M. Zhang and L. Liu and W. Yang and L. Cai and P. Ye. "Numerical Modeling and Experimental Testing of Reflective Semiconductor Optical Amplifier (RSOA) with Modulation Bandwidth Optimization". In: ACP, no. Th13, December 2010.
- [971] X. Liu and Y. Qiao and Y. Ji. "The Phase Compensator for Laser Linewidth of 100Gb/s PDM-CO-OFDM System". In: ACP, no. SuA7, December 2010.
- [972] X. Liu and Y. Qiao and Y. Ji. "Compensating Gordon-Mollenauer Phase Noise by Optical Phase Conjugation for 40Gb/s CO-OFDM system". In: ACP, no. SuA5, December 2010.
- [973] X. Yu and W. Kozuch and J. Turkiewicz and I. Monroy. "A Robust Optical Phase Modulated 60 GHz RoF WDM System". In: ACP, no. SG3, December 2010.
- [974] J. Wang and K. Gao and L. Yang and X. He and Z. Pan. "Comparison between MZI and single phase-modulator for generating 112-Gbit/s PDM-QPSK signal". In: ACP, no. P16, December 2010.
- [975] H. Chung and S. Chang and K. Kim. "Mitigation of Imperfect Carver-Induced Phase Distortions in a Coherent PM-RZ-QPSK Receiver". In: Journal of Lightwave Technology, vol. 28, pp. 3506-3511, December 2010.
- [976] X. Xie and Y. Qiao and Y. Ji. "The Study of Wavelength Interval between Adjacent ONUs in OFDMA-PON". In: ACP, no. SuB4, December 2010.
- [977] L. Tao and B. Huang and Y. Shao and J. Zhang and J. Zhu and N. Chi. "Coherent Detection of 40-Gb/s Optical Minimum-Shift Keying Modulation". In: ACP, no. P3, December 2010.
- [978] S. Taebi and S. Saini. "Effect of AWG Filtering on Spectrally-Sliced WDM-PONs Deploying RSOAs". In: ACP, no. SB4, December 2010.
- [979] H. Louchet and I. Koltchanov and A. Richter. "Performance Monitoring for Coherent DP-QPSK Systems based on Stokes Vector Analysis". In: ACP, no. FA5, December 2010.
- [980] T. Xu and G. Jacobsen and S. Popov and J. Li and A. Friberg and Y. Zhang. "Digital Chromatic Dispersion Compensation in Coherent Transmission System Using a Time-Domain Filter". In: ACP, no. P7, December 2010.
- [981] H. YaMei and L. SiYuan and W. LiQian and C. Xue. "Optical Receiver Sensitivity Analysis for Electronic Code Division Multiple Access Over Passive Optical Network". In: ACP, no. FC4, December 2010.
- [982] Y. Qiao and X. Liu and Y. Ji. "Fiber Nonlinearity Post-compensation via Spectral Inversion for 40Gb/s Long-haul CO-OFDM System". In: ACP, no. SuA6, December 2010.
- [983] R. Younce and J. Larikova. "PDL Impairment on 40 and 100G Pol-Mux Transmission". In: ACP, no. FA4, December 2010.
- [984] C. Farrell and C. Codemard and J. Nilsson. "Spectral gain control using shaped pump pulses in a counter-pumped cascaded fiber Raman amplifier". In: Optics Express, vol. 18, pp. 24126-24139, November 2010.
- [985] J. James and P. Shen and A. Nkansah and X. Liang and N. Gomes. "Nonlinearity and Noise Effects in Multi-Level Signal Millimeter-Wave Over Fiber Transmission Using Single and Dual Wavelength Modulation". In: IEEE Transactions on Microwave Theory and Techniques, vol. 58, no. 11, pp. 3189-3198, November 2010.
- [986] E. Chan and R. Minasian. "Microwave Photonic Signal Processing without Coherent Interference Limitations". In: Journal of Microwave and Optical Technology, vol. 5, pp. 445-454, November 2010.

- [987] A. Richter and H. Louchet and I. Koltchanov and N. Karelin and J. Farina. "Dynamic Events in Optical Networks - Emulation and Performance Impact Analysis". In: *Milcom*, no. 1083-1087, pp. 1083-1087, October 2010.
- [988] L. Mehedy and M. Bakaul and A. Nirmalathas. "Frequency interleaving towards spectrally efficient directly detected optical OFDM for next-generation optical access networks". In: *Optics Express*, vol. 18, pp. 23161-23172, October 2010.
- [989] M. Sakib and B. Hraimel and X. Zhang and K. Wu and T. Liu and T. Xu and Q. Nie. "Impact of Laser Relative Intensity Noise on a Multiband OFDM Ultrawideband Wireless Signal Over Fiber System". In: *Journal of Optical Communications and Networking*, vol. 2, no. 10, pp. 841-847, October 2010.
- [990] S. Freund and H. Louchet and G. Schuetzler and M. Rohde and A. Richter. "Investigation of DSP Requirements for Coherent Transmission using Experimental 10Gbaud/s 8PSK Data". In: *ECOC*, no. P3.13, September 2010.
- [991] B. Huang and N. Chi and Y. Shao and J. Zhang and J. Zhu and W. Li and W. Liu. "Analysis of smooth phase modulation formats compared with conventional QPSK and BPSK using coherent detection". In: *Chinese Optics Letters*, vol. 8, pp. 856-858, September 2010.
- [992] S. Moro and A. Peric and N. Alic and B. Stossel and S. Radic. "Phase noise in fiber-optic parametric amplifiers and converters and its impact on sensing and communication systems". In: *Optics Express*, vol. 18, pp. 21449-21460, September 2010.
- [993] Y. Qiao and Z. Wang and Y. Ji. "Blind frequency offset estimation based on cyclic prefix and virtual subcarriers in CO-OFDM system". In: *Chinese Optics Letters*, vol. 8, pp. 888-893, September 2010.
- [994] J.-P. Savoie and C. Tremblay and D. Plant and M. Belanger. "Physical Layer Validation of Filterless Optical Networks". In: *ECOC*, no. P5.08, September 2010.
- [995] M. Schueppert and C. Weber and C.-A. Bunge and K. Petermann. "Origins of Cross-Phase Modulation Impairments in Optical Transmission Systems Without In-Line Dispersion Compensation". In: *Journal of Lightwave Technology*, vol. 28, pp. 2146-2152, August 2010.
- [996] T. Vivero and J.M. Rivas-Moscoso and A.P. Gonzalez-Marcos and J. A. Martin-Pereda. "Dispersive Optical Bistability in Quantum Wells With Logarithmic Gain". In: *IEEE Journal of Quantum Electronics*, vol. 46, pp. 1184-1190, August 2010.
- [997] W.-J. Jiang and C.-T. Lin and A. Ngoma and P.-T. Shih and J. Chen and M. Sauer and F. Annunziata and S. Chi. "Simple 14-Gb/s Short-Range Radio-Over-Fiber System Employing a Single-Electrode MZM for 60-GHz Wireless Applications". In: *Journal of Lightwave Technology*, vol. 28, pp. 2238-2246, August 2010.
- [998] K. Jamshidi and C.-A. Bunge and T. Schneider. "A proposal for a tunable light storage method based on Quasi-Light-Storage and frequency-to-time-conversion". In: *Photonics in Switching*, no. PWF5, July 2010.
- [999] S. Zsigmond and D. Mazroa and H. Furukawa and N. Wada. "Limitation of Spectral Efficient Modulation Formats for Circuit and Packet Switched Networks". In: *OECC*, no. 8P-16, July 2010.
- [1000] M. Milosavljevic and P. Kourtessis and J.M. Senior. "Transparent Wireless Transmission over the ACCORDANCE Optical/Wireless Segment". In: *CSNDSP*, no. BWN3, July 2010.
- [1001] T. Xu and G. Jacobsen and S. Popov and J. Li and E. Vanin and K. Wang and A.T. Friberg and Y. Zhang. "Chromatic dispersion compensation in coherent transmission system using digital filters". In: *Optics Express*, vol. 18, pp. 16243-16257, July 2010.
- [1002] C. Guo and C. Luo and S. He. "Electrically Processed OCDMA System Based on Spatial Coding and Subcarrier Multiplexing". In: *Photonics in Switching*, no. JTUB43, July 2010.
- [1003] A.J. Lowery. "Design of arrayed-waveguide grating routers for use as optical OFDM demultiplexers". In: *Optics Express*, vol. 18, pp. 14129-14143, June 2010.

- [1004] N. Sotiropoulos and T. Koonen and H. de Waardt. "Bidirectional Incoherent 16QAM Transmission over Hybrid WDM/TDM Passive Optical Network". In: ICTON, no. Th.A2.4, June 2010.
- [1005] D. Rafique and M. Forzati and J. Martensson. "Impact of Nonlinear Fibre Impairments in 112 Gb/s PM-QPSK Transmission with 43 Gb/s and 10.7 Gb/s Neighbours". In: ICTON, no. We.D1.6, June 2010.
- [1006] C.H. Wang and C.W. Chow and C.H. Yeh and C.L. Wu and S.Chi and C. Lin. "Rayleigh Noise Mitigation Using Single-Sideband Modulation Generated by a Dual-Parallel MZM for Carrier Distributed PON". In: IEEE Photonics Technology Letters, vol. 22, pp. 820-822, June 2010.
- [1007] M. Milosavljevic and P. Kourtessis and J.M. Senior. "Wireless-PONs with Extended Wavelength Band Overlay". In: ANIC, no. AWC6, June 2010.
- [1008] M. Milosavljevic and P. Kourtessis and A. Gliwan and J.M. Senior. "Multi-Wavelength Wireless-PON". In: ICTON, no. Th.B3.2, June 2010.
- [1009] X. Xie and F. Yaman and X. Zhou and G. Li. "Polarization Demultiplexing by Independent Component Analysis". In: IEEE Photonics Technology Letters, vol. 22, pp. 805-807, June 2010.
- [1010] S. Aleksic and N. Fehratovic. "Requirements and Limitations of Optical Interconnects for High-Capacity Network Elements". In: ICTON, no. We.A1.2, June 2010.
- [1011] J.A. ODowd and S.K. Ibrahim and V. Bessler and A.D. Ellis. "Investigation of Duobinary Modulation Implementations for Use in Wavelength Switched Networks". In: ICTON, no. We.B1.4, June 2010.
- [1012] J. Xu and C. Peucheret and P. Jeppesen. "Power Consumption Comparison between Point-to-Point WDM and OTDM Systems". In: ICTON, no. Th.A1.1, June 2010.
- [1013] C.P. Tsekrekos and T. Papachristos and I. Tomkos. "The Impact of Receiver Sensitivity in the Convergence of Diverse Services over Future Integrated Optical Access Networks". In: ICTON, no. We.A3.1, June 2010.
- [1014] R. Llorente and M. Morant and M. Beltran. "Optical Technologies for Multi-Gbit/s Ultra-Wideband Radio: From the Access to the Pico-Cell". In: ICTON, no. We.A3.3, June 2010.
- [1015] M.N. Chughtai and M. Forzati and J. Martensson and E. Tipsuwannakul and M. Karlsson. "Analysis of Non-Linear Impairments in 40 Gbaud PM DQPSK and D8PSK Transmission". In: ICTON, no. We.P.19, June 2010.
- [1016] P. Laurencio and H. Vargues and R. Avo and M.C.R. Medeiros. "Generation and Transmission of Millimeter Wave Signals Employing Optical Frequency Quadrupling". In: ICTON, no. Tu.C1.6, June 2010.
- [1017] Z. Zan and A.J. Lowery. "Experimental demonstration of a flexible and stable semiconductor laser linewidth emulator". In: Optics Express, vol. 18, pp. 13880-13885, June 2010.
- [1018] R. Avo and P. Laurencio and M.C.R. Medeiros. "60 GHz Radio-over-Fiber Transmission Impairments for Broadband Wireless Signals". In: ICTON, no. We.A3.4, June 2010.
- [1019] S. Khaleghi and I. Fazal and L. Zhang and J. Jackel and A. Agarwal and R. Menendez and A. Willner. "System Design Guidelines When Utilizing Chirp-Inducing Wavelength Converters in a Fiber Transmission System". In: CLEO/QELS, no. JThE55, May 2010.
- [1020] C.-H. Yeh and C.-W. Chow and C.-H. Wang and Y.-F. Wu and F.-Y. Shih and S. Chi. "Using OOK Modulation for Symmetric 40-Gb/s Long-Reach Time-Sharing Passive Optical Networks". In: IEEE Photonics Technology Letters, vol. 22, pp. 619-621, May 2010.
- [1021] Y. Li and W. Li and X. Liang and K. Yang and Y. Qiao. "Novel 64 x 2.5 Gb/s all-optical OFDM symbol generator based on triangle waveform driving-LiNbO3 modulators". In: Chinese Optics Letters, vol. 8, pp. 449-453, May 2010.

- [1022] M. Haas and S. Kharitonov and C.G. Schaeffer. "Polarisationsmodendispersionskompensation mittels EMTY-Modell und nichtlinearer Optimierung". In: ITG-Fachtagung "Photonische Netze", no. P7, April 2010.
- [1023] A.K. Mishra and A.D. Ellis and L.P. Barry. "Time-Resolved Q-factor Measurement and Its Application in Performance Analysis of 42.6 Gbit/s Packets Generated by SGDBR Lasers". In: Journal of Lightwave Technology, vol. 28, pp. 1144-1151, April 2010.
- [1024] D.D. Tran and A.J. Lowery. "SPM mitigation in 16-ary amplitude-and-differential-phase shift keying long-haul optical transmission systems". In: Optics Express, vol. 18, pp. 7790-7797, April 2010.
- [1025] J.D. Domenech and M. Rius and J. Mora and P. Munoz and J. Capmany. "Microwave photonics beamformer based on ring resonators and arrayed waveguide gratings". In: ECIO, no. WeP17, April 2010.
- [1026] J. Li and F. Zhang and Z. Chen. "Electrical Dispersion Compensation for Multichip DPSK Detection Utilizing MISO DFE". In: IEEE Photonics Technology Letters, vol. 22, pp. 444-446, April 2010.
- [1027] H.-C. Chien and Y.-T. Hsueh and A. Chowdhury and G.-K. Chang. "A Novel Carrier-Eliminated Optical Millimeter-Wave Generation Using a Single Over-Driven Phase Modulator". In: OFC/NFOEC, no. JWA55, March 2010.
- [1028] S. Zsigmond and H. Furukawa and N. Wada. "Investigation of Spectral Efficient Modulation Formats for 400Gbit/s/port Optical Packet Switched System". In: OFC/NFOEC, no. OThP1, March 2010.
- [1029] F.C.G. Gunning and S.K. Ibrahim and P. Frascella and P. Gunning and A.D. Ellis. "High Symbol Rate OFDM Transmission Technologies". In: OFC/NFOEC, no. OThD1, March 2010.
- [1030] J.C. Geyer and A. Bisplinghoff and T. Duthel and C.R.S. Fludger and C. Schulien and B. Schmauss. "Optimization of the Chromatic Dispersion Equalizer of a 43Gb/s Realtime Coherent Receiver". In: OFC/NFOEC, no. OWV8, March 2010.
- [1031] H.S. Chung and S.H. Chang and K. Kim. "Effect of IQ Mismatch Compensation in an Optical Coherent OFDM Receiver". In: IEEE Photonics Technology Letters, vol. 22, pp. 308-310, March 2010.
- [1032] H. Shams and A. Kaszubowska-Anandarajah and P. Perry and P. Anandarajah and L.P. Barry. "Electro-Optical Generation and Distribution of Ultrawideband Signals Based on the Gain Switching Technique". In: Journal of Optical Communications and Networking, vol. 2, pp. 122-130, March 2010.
- [1033] L.B. Du and A.J. Lowery. "Practical XPM Compensation Method for Coherent Optical OFDM Systems". In: IEEE Photonics Technology Letters, vol. 22, pp. 320-322, March 2010.
- [1034] L.B. Du and A.J. Lowery. "Compensating XPM for 100 Gbit/s coherent channels with 10 Gbit/s direct-detection NRZ neighbors". In: OFC/NFOEC, no. OTuE7, March 2010.
- [1035] C. W. Chow and L. Xu and C. H. Yeh and H. K. Tsang and W. Hofmann and M. C. Amann. "40-Gb/s Upstream Transmitters Using Directly Modulated 1.55-um VCSEL Array for High-Split-Ratio PONs". In: IEEE Photonics Technology Letters, vol. 22, pp. 347-349, March 2010.
- [1036] M. Ghandour and S. Liu and D.K. Hunter and D. Simeonidou and R. Nejabati and P. Petropoulos. "Ultra High Performance Media Multicasting Scheme over Wavelength-Routed Networks". In: OFC/NFOEC, no. JThA40, March 2010.
- [1037] M. Gharaei and C. Lepers and P. Gallion. "Impact of Crosstalk in Capacity performance of WDM/OCDMA System". In: OFC/NFOEC, no. JThA49, March 2010.
- [1038] H. Louchet and E. Patzak and A. Richter and M. Schlosser. "FTTx-Plan - Optimierter Aufbau von FTTx Netzen; Teil B: Erweiterbarkeit Bestehender Passiver Optischer Zugangsnetze". In: 4. ITG-Fachkonferenz: Breitbandversorgung in Deutschland (ITG-FB 220), no. 8, March 2010.

- [1039] Z. Zan and L.B. Du and A.J. Lowery. "Experimental Demonstration on the Reduction of Linewidth Impact in a Self-Heterodyne Optical OFDM System". In: OFC/NFOEC, no. JthA8, March 2010.
- [1040] C.-S. Bres and A.O.J. Wiberg and B.P.-P. Kuo and J.M. Chavez-Boggio and C.F. Marki and N. Alic and S. Radic. "Optical Demultiplexing of 320 Gb/s to 8 40 Gb/s in Single Parametric Gate". In: Journal of Lightwave Technology, vol. 28, pp. 434-442, February 2010.
- [1041] J.L. Areal and H. Hu and C. Peucheret and E. Palushani and R.S. Puttini and A.T. Clausen and M.S. Berger and A.V. Osadchiy and L.K. Oxenlowe. "Analysis of a Time-lens based Optical Frame Synchronizer and Retimer for 10G Ethernet Aiming at a Tb/s Optical Router/Switch Design". In: ONDM, no. P-3, February 2010.
- [1042] C.A. Stolz and D. Labukhin and N.A. Zakhleniuk and M.J. Adams. "Dynamics of Optically-Injected Semiconductor Lasers Using the Travelling-Wave Approach". In: IEEE Journal of Quantum Electronics, vol. 46, pp. 220-227, February 2010.
- [1043] B.J.C. Schmidt and Z. Zan and L.B. Du and A.J. Lowery. "120 Gbit/s Over 500-km Using Single-Band Polarization-Multiplexed Self-Coherent Optical OFDM". In: Journal of Lightwave Technology, vol. 28, pp. 328-335, February 2010.
- [1044] C.-H. Yeh and C.-W. Chow and C.-H. Hsu. "40-Gb/s Time-Division-Multiplexed Passive Optical Networks Using Downstream OOK and Upstream OFDM Modulations". In: IEEE Photonics Technology Letters, vol. 22, pp. 118-120, January 2010.
- [1045] E.T. Lopez and J. A. Lazaro and C. Arellano and V. Polo and J. Prat. "Optimization of Rayleigh-Limited WDM-PONs With Reflective ONU by MUX Positioning and Optimal ONU Gain". In: IEEE Photonics Technology Letters, vol. 22, pp. 97-99, January 2010.

2009

- [1046] J. Zhao and A.P.T. Lau and K.K. Qureshi and Z. Li and C. Lu and H. Y. Tam. "Chromatic Dispersion Monitoring for DPSK Systems Using RF Power Spectrum". In: *Journal of Lightwave Technology*, vol. 27, no. 24, pp. 5704-5709, December 2009.
- [1047] K. Huybrechts and R. Baets and G. Morthier. "All-Optical Flip-Flop Operation in a Standard Tunable DBF Laser Diode". In: *IEEE Photonics Technology Letters*, vol. 21, no. 24, pp. 1873-1875, December 2009.
- [1048] R. Freund and M. Seimetz and L. Molle and T. Baghdasaryan and M. Forzati and J. Martensson. "Next generation optical networks based on higher-order modulation formats, coherent receivers and electronic distortion equalization". In: *ICTON-MW*, no. Th3.1, December 2009.
- [1049] H. Zhu and X. Chen and W. Zhou and Z. Li and X. Zhou and Z. Zhang. "A Modified CMA for Blind Equalization and Phase Recovery in Optical Coherent Receivers". In: *ACP*, vol. 7632, no. 7632-43, November 2009.
- [1050] H. Wen and L. Cheng and X. Zhenga and H. Zhang and Y. Guoa. "Multiple Channels of ADCs for High Bit Rate Coherent Optical OFDM with Low Sampling Rate". In: *ACP*, vol. 7632, no. 7632-63, November 2009.
- [1051] H. Chen and R. Lin and J. Ye. "Schemes of Generating M-ASK Signals and Remote Local Oscillator at Millimeter-Wave Band in Radio over Fiber System". In: *ACP*, vol. 7632, no. 7632-59, November 2009.
- [1052] S. Zhang and J. Li and F. Zhang and Z. Chen. "SPM Suppression by Clipping for Optical Transmission Systems with Electrical Dispersion Predistortion". In: *ACP*, vol. 7632, no. 7632-90, November 2009.
- [1053] L. Cheng and H. Wen and X. Zheng and H.i Zhang and Y.i Guo and B. Zhou. "OOFDM System with Multiple Low Bandwidth Receivers". In: *ACP*, vol. 7632, no. 7632-62, November 2009.
- [1054] C. Arellano and S. Mingaleev and A. Novitsky and I. Koltchanov and A. Richter. "Design of Complex Semiconductor Integrated Structures". In: *ACP*, vol. 7631, no. 7631-106, November 2009.
- [1055] X. Liang and Y. Qiaob and W. Li and J. Mei a and Y. Qin. "160 Gb/s OFDM Transmission Utilizing An All-optical Symbol Generator Based on PLC". In: *ACP*, vol. 7632, no. 7632-11, November 2009.
- [1056] Z. Deng and J. Mei and W. Li and X. Liang and H. Qingsheng. "Accurate Computation of the BER in DPSK/MZI Receiver with Balanced Detection Thereafter of 40Gbit/s Optical System". In: *ACP*, vol. 7632, no. 7632-36, November 2009.
- [1057] Z. Li and X. Chen and W. Zhou and H. Zhu and X. Zhoua and Z. Zhanga. "Wide-Range and Fast-Convergence Frequency Offset Estimator by BER-Aiding for Optical Coherent Receivers". In: *ACP*, vol. 7632, no. 7632-45, November 2009.
- [1058] A. Hachmeister and M. Rohde and R. Freund. "Long Haul WDM Transmission of Optical Minimum Shift Keying Format with Narrow Channel Spacing". In: *ACP*, no. ThT6, November 2009.
- [1059] T. Xu and G. Jacobsen and S. Popov and J. Li and K. Wang and A. Friberg. "Digital Compensation of Chromatic Dispersion in 112-Gbit/s PDM-QPSK System". In: *ACP*, vol. 7632, no. 7632-9, November 2009.
- [1060] C. W. Chow and L. Xu and C. H. Yeh and C. H. Wang and F. Y. Shih and H. K. Tsang and C. L. Pan and S. Chi. "Mitigation of Signal Distortions Using Reference Signal Distribution With Colorless Remote Antenna Units for Radio-Over-Fiber Applications". In: *Journal of Lightwave Technology*, vol. 27, no. 21, pp. 4773 - 4780, November 2009.
- [1061] N. Sotiropoulos and A.M.J. Koonen and H. de Waardt. "Multi-level Modulation Formats for Optical Access Networks". In: *Symposium IEEE/LEOS Benelux Chapter*, pp. 89-92, November 2009.
- [1062] Z. Huang and J. Li and S. Zhang and F. Zhang and Z. Chen. "Investigations of SPM Suppression by PAPR Reduction in Coherent Optical OFDM Systems". In: *ACP*, vol. 7632, no. 7632-60, November 2009.

- [1063] Z. Xian and C. Xue and Z. Weiqing and F. Yangyang and Z. Hai and L. Zhiyu. "Digital Timing Recovery Combined with adaptive Equalization for Optical Coherent Receivers". In: ACP, vol. 7632, no. 7632-48, November 2009.
- [1064] Y. Shao and N. Chi and X. Li and S. Zhou and C. Hou and X. Liu and X. Zheng and B. Huang and J. Zhang and W. Fang. "Staggered Differential Phase-Shift Keying Format with RZ or CSRZ Clock for 100Gbit/s Transmission". In: ACP, vol. 7632, no. 7632-75, November 2009.
- [1065] Y. Zhao and X. Zhenga and H. Zhanga and B. Zhoua. "Edge-Triggered Ultra-Wideband Signal Over Fiber System Using Dual-parallel Mach-Zehnder Modulator". In: ACP, vol. 7632, no. 7632-19, November 2009.
- [1066] H. Louchet and K. Kuzmin and I. Koltchanov and A. Richter. "BER Estimation for Multilevel Modulation Formats". In: ACP, vol. 7632, no. 7632-114, November 2009.
- [1067] X. Wu and X. Zheng and H. Wen and H. Zhang. "BER performance analysis of radio-over-fiber system with different modulation schemes". In: ACP, vol. 7632, no. 7632-4, November 2009.
- [1068] T. Duthel and G. Clarici and C.R.S. Fludger and J.C. Geyer and C. Schulien and S. Wiese. "Laser Linewidth Estimation by Means of Coherent Detection". In: IEEE Photonics Technology Letters, vol. 21, pp. 1568 - 1570, October 2009.
- [1069] P. Bakopoulos and I. Karanasiou and N. Pleros and P. Zakyntinos and N. Uzunoglu and H. Avramopoulos. "A tunable continuous wave (CW) and short-pulse optical source for THz brain imaging applications". In: Measurement Science and Technology, vol. 20, no. 24, pp. 1-9, October 2009.
- [1070] C. W. Chow and L. Xu and C. H. Yeh and C. H. Wang and F. Y. Shih and H. K. Tsang and S. Chi. "Signal-Remodulated Wired/Wireless Access Using Reflective Semiconductor Optical Amplifier With Wireless Signal Broadcast". In: IEEE Photonics Technology Letters, vol. 21, no. 19, pp. 1459-1461, October 2009.
- [1071] K. Huybrechts and A. Ali and G. Morthier. "All-optical 2R regeneration and wavelength conversion at 10Gb/s using a single bistable DFB laser diode". In: Photonics in Switching, no. 5307839, September 2009.
- [1072] K. Huybrechts and A. Ali and T. Tanemura and Y. Nakano and G. Morthier. "Numerical and experimental study of the switching times and energies of DFB-laser based All-optical flip-flops". In: Photonics in Switching, no. 5307761, September 2009.
- [1073] M. Omella and J. Lazaro and V. Polo and J. Prat. "Driving Requirements for Wavelength Shifting in Colorless ONU With Dual-Arm Modulator". In: Journal of Lightwave Technology, vol. 27, no. 17, pp. 3912-3918, September 2009.
- [1074] C.-S. Bres and A.O.J. Wiberg and J.M. Chavez-Boggio and S. Radic. "Optical Demultiplexing with Extinction Ratio Enhancement Based on Higher Order Parametric Interaction". In: ECOC, no. 1.1.3, September 2009.
- [1075] F. Fidler and J. Grosinger and W.R. Leeb. "Sensitivity of Balanced Receivers for Polarization Shift Keying in Free-Space Optical Communications". In: ECOC, no. 9.6.2, September 2009.
- [1076] J. Fischer and K. Petermann. "Scaling of Nonlinear Threshold in WDM Transmission Systems using Electronic Precompensation of Intrachannel Nonlinearities". In: ECOC, no. P4.05, September 2009.
- [1077] M. Milosavljevic and P. Kourtessis and J.M. Senior. "Integrated Wireless Optical Networking". In: London Communications Symposium (LCS), no. 16, September 2009.
- [1078] H. Louchet and K. Kuzmin and A. Richter. "FFT-Based Digital Clock Recovery for Coherent Transmission Systems with Multilevel Modulation Formats". In: ECOC, no. 7.3.5, September 2009.
- [1079] A. Lowery. "Reducing Cyclic Prefix Overhead in Optical OFDM Systems". In: ECOC, no. 1.3.4, September 2009.
- [1080] B. Masella and B. Hraimel and Xiupu Zhang. "Enhanced Spurious-Free Dynamic Range Using Mixed Polarization in Optical Single Sideband Mach-Zehnder Modulator". In: Journal of Lightwave Technology, vol. 27, no. 15, pp. 3034 - 3041, August 2009.

- [1081] C. Weber and C.-A. Bunge and K. Petermann. "Fiber Nonlinearities in Systems Using Electronic Predistortion of Dispersion at 10 and 40 Gbit/s". In: *Journal of Lightwave Technology*, vol. 27, pp. 3654-3661, August 2009.
- [1082] Y. Tang and W. Shieh. "Coherent Optical OFDM Transmission Up to 1 Tb/s per Channel". In: *Journal of Lightwave Technology*, vol. 27, pp. 3511-3517, August 2009.
- [1083] X. Liang and W. Li and W. Ma and K. Wang. "A simple peak-to-average power ratio reduction scheme for all optical orthogonal frequency division multiplexing systems with intensity modulation and direct detection". In: *Optics Express*, vol. 17, pp. 15614-15622, August 2009.
- [1084] X. Ming and C. Minghua and C. Hongwei and X. Shizhong. "Optical Code Label Stripping based on SOA-MZI in Optical Packet Switching Networks". In: *Journal of Lightwave Technology*, vol. 27, no. 15, pp. 3212 - 3219, August 2009.
- [1085] Z. Tao and W. Yan and S. Oda and T. Hoshida and J. C. Rasmussen. "A simplified model for nonlinear cross-phase modulation in hybrid optical coherent system". In: *Optics Express*, vol. 17, pp. 13860-13868, August 2009.
- [1086] J. K. Fischer and C.-A. Bunge and K. Petermann. "Equivalent Single-Span Model for Dispersion-Managed Fiber-Optic Transmission Systems". In: *Journal of Lightwave Technology*, vol. 27, pp. 3425-3432, August 2009.
- [1087] K.J. Dexter and D.A. Reid and P.J. Maguire and L.P. Barry and C. Tian and M. Ibsen and P. Petropoulos and D.J. Richardson. "Multiple access interference rejection in OCDMA using a two-photon absorption based semiconductor device". In: *Optics Communications*, vol. 282, pp. 1281-1286, July 2009.
- [1088] A. Richter. "Photonics Modeling of Components, Systems and Networks". In: *OECC*, no. ThL1 (Tutorial), July 2009.
- [1089] L. Mehedy and M. Bakaul and A. Nirmalathas. "115.2 Gb/s Optical OFDM Transmission with 4 bit/s/Hz Spectral Efficiency Using IEEE 802.11a OFDM PHY". In: *OECC*, no. TuE5, July 2009.
- [1090] Y. Ma and Q. Yang and S. Chen and W. Shieh. "Multi-tone Generation using a Recirculating Frequency Shifter and Its Application to 1-Tb/s Coherent Optical OFDM Signal". In: *OECC*, no. ThLP75, July 2009.
- [1091] L. A. Vazquez-Zuniga and S. Chung and Y. Jeong. "Temperature Dependence of a High-Power Ytterbium-Doped Fiber Amplifier Operating at 1060 nm and 1080 nm". In: *OECC*, no. ThLP33, July 2009.
- [1092] Y. Gao and F. Zhang and Z. Chen and A. Xu. "An efficient bit error rate estimation method based on Parzen series for coherent detection QPSK transmission systems". In: *OECC*, no. FW2, July 2009.
- [1093] F. Zhang. "XPM Statistics in 100% Pre-compensated WDM Transmission for Different Modulation Formats and Transmission Fibres". In: *OECC*, no. FQ6, July 2009.
- [1094] C. J. Chae and T. B. Anderson and A. Nirmalathas. "OSNR-independent chromatic dispersion monitoring on 40Gb/s DPSK signals using two RF filters". In: *OECC*, no. FW3, July 2009.
- [1095] C. Arellano and H. Louchet and I. Koltchanov and A. Richter. "Important Device Limitations of Transmitter and Receiver Concepts when Designing 100G Transmission Systems". In: *ICTON*, no. Tu.C2.3, July 2009.
- [1096] C. Arellano and A. Richter. "Impact of transmitter electronics for high-speed systems applications". In: *OECC*, no. FU2, July 2009.
- [1097] J. Hu and C. Yu. "Low-Power High-Resolution Autocorrelation Technique Based on the Degree-of-Polarization Measurement". In: *OECC*, no. ThM4, July 2009.
- [1098] J. Li and L. Zhang and F. Zhang and Z. Chen. "Electrical Dispersion Compensation for 40-Gbit/s Polarizationmultiplexing DQPSK Utilizing MIMO DFEs". In: *OECC*, no. TuK3, July 2009.

- [1099] N. S. Avlonitis and I. Tomkos. "Fast Method for Q Factor Estimation in Delay Line Demodulated DPSK Optical Communications Systems". In: ICTON, no. Th.B2.5, July 2009.
- [1100] N. B. Pavlovic and L. N. Costa and A. Teixeira. "Performance Comparison of Spectrally Efficient Intensity Modulated Formats in Remodulated WDM PON". In: ICTON, no. Th.A2.2, July 2009.
- [1101] H. Vargues and R. Avo and P. Laurencio and M. C. R. Medeiros. "Simulation of mm-Wave over Fiber Systems Employing Up-Conversion Using External Modulators". In: ICTON, no. Mo.D5.4, July 2009.
- [1102] D. Labukhin and C. A. Stolz and N. A. Zakhleniuk and R. Loudon and M. J. Adams. "Modified Fabry-Perot and Rate Equation Methods for the Nonlinear Dynamics of an Optically Injected Semiconductor Laser". In: IEEE Journal of Quantum Electronics, vol. 45, pp. 863-871, July 2009.
- [1103] J. Zhao and C. Lu and H. Y. Tam. "Nonlinear effect on residual dispersion monitoring of DPSK signals using delay-tap sampling and Hausdorff distance measure". In: OECC, no. ThLP79, July 2009.
- [1104] J. M. Fabrega and J. Prat and L. Molle and R. Freund. "Design of a Wavelength Control for Coherent Detection of High Order Modulation Formats". In: ICTON, no. We.P.21, July 2009.
- [1105] B. J. C. Schmidt and A. J. Lowery and J. Armstrong. "Impact of PMD in Single-Receiver and Polarization-Diverse Direct-Detection Optical OFDM". In: Journal of Lightwave Technology, vol. 27, pp. 2792-2799, July 2009.
- [1106] L. Wang and M. Forzati and J. Martensson. "Analysis of NRZ- and RZ-DQPSK for 112 Gb/s DWDM Transmission". In: ICTON, no. Mo.C2.4, July 2009.
- [1107] D. Coelho and H. M. Salgado. "OFDM Signals in WDM Radio-Over-Fiber Networks with Fiber Bragg Grating Selection". In: ICTON, no. Tu.A5.5, July 2009.
- [1108] M. Milosavljevic and P. Kourtessis and A. Gliwan and J. M. Senior. "Advanced PON Topologies with Wireless Connectivity". In: ICTON, no. Tu.A5.4, July 2009.
- [1109] R. Freund and H. Louchet and M. Gruner and L. Molle and M. Seimetz and A. Richter. "80 Gbit/s/lambda Polarization Multiplexed Star-16QAM WDM Transmission over 720 km SSMF with Electronic Distortion Equalization". In: OECC, no. WP2, July 2009.
- [1110] P. J. Urban and B. Huiszoon and R. Roy and M. M. de Laat and F. M. Huijskens and E. J. Klein and G. D. Khoe and A. M. J. Koonen and H. de Waardt. "High-Bit-Rate Dynamically Reconfigurable WDM-TDM Access Network". In: Journal of Optical Communications and Networking, vol. 1, no. 2, pp. A143-A158, July 2009.
- [1111] V. Sacchieri and S. Di Lucente and P. Teixeira and A. Teixeira and G. Cincotti. "Multi-User Application of Code Scrambling for Enhanced Optical Layer Confidentiality". In: ICTON, no. Th.A3.5, July 2009.
- [1112] B. H. Yeh and C. H. Lin and C. L. Yang and J. Wu. "Noncoherent Spectral/Spatial Optical CDMA System Using 2-D Diluted Perfect Difference Codes". In: Journal of Lightwave Technology, vol. 27, no. 13, pp. 2420 - 2432, July 2009.
- [1113] B. S. G. Pillai and A. Nirmalathas. "OSNR And Chromatic Dispersion Monitoring Using Wiener-Hopf Equation". In: OECC, no. FW4, July 2009.
- [1114] M. Mamud and S. Stump. "Development of an Intelligent Learning Resource using Computer Simulation about Optical Communications". In: ETOP, July 2009.
- [1115] F.C. Garcia Gunning and A.D. Ellis and J. Zhao and S.K. Ibrahim and P. Frascella and B. Cuenot. "Recent Developments in 40 Gsymbol/s Coherent WDM". In: ICTON, no. Mo.C2.2, July 2009.
- [1116] B. Huiszoon and T. Spuesens and E. Tangdionga and H. de Waardt and G. D. Khoe and A. M. J. Koonen. "Hybrid Radio-Over-Fiber and OCDMA Architecture for Fiber to the Personal Area Network". In: Journal of Lightwave Technology, vol. 27, pp. 1904-1911, June 2009.

- [1117] A. Richter and H. Louchet and I. Poloyko and N. Karelin and J. Farina and I. Koltchanov. "A Parametric Approach to Optical Systems Design, Optimization and Validation". In: NOC - European Conference on Networks and Optical Communications, pp. 361-367, June 2009.
- [1118] K. Shi and P.M. Anandarajah and D. Reid and F. Smyth and L.P. Barry and Y. Yu. "SG-DBR tunable laser linewidth and its impact on advanced modulation format transmission". In: CLEO Europe, no. 5192162, June 2009.
- [1119] N. Pleros and K. Vyrsoinos and K. Tsagkaris and N. D. Tselikas. "A 60 GHz Radio-Over-Fiber Network Architecture for Seamless Communication With High Mobility". In: Journal of Lightwave Technology, vol. 27, pp. 1957-1967, June 2009.
- [1120] R. Avo and P. Laurencio and C.R. Mendeiros. "mm-wave networks over optical access network architectures employing reflective semiconductor optical amplifiers: intermodulation effects". In: NOC - European Conference on Networks and Optical Communications, pp. 249-256, June 2009.
- [1121] I. Nellas and C. Kouloumentas and I. Tomkos. "Performance optimization study of a fiber-based all optical multi-wavelength 2R regenerator at 10 Gb/sec". In: NOC - European Conference on Networks and Optical Communications, pp. 369-374, June 2009.
- [1122] V. Tavassoli and T. E. Darcie. "An analytical model for nonlinear crosstalk in hybrid OOK - DQPSK systems". In: NOC - European Conference on Networks and Optical Communications, pp. 375-380, June 2009.
- [1123] M.N. Sakib and B. Hraimel and Xiupu Zhang and M. Mohamed and J. Wei and W. Ke and S. Dongya. "Impact of Optical Transmission on Multiband OFDM Ultra-Wideband Wireless System With Fiber Distribution". In: Journal of Lightwave Technology, vol. 27, no. 19, pp. 4112 - 4123, May 2009.
- [1124] X. Li and G. Li. "Electrical Postcompensation of SOA Impairments for Fiber-Optic Transmission". In: IEEE Photonics Technology Letters, vol. 21, pp. 581-583, May 2009.
- [1125] J. Hmood. "Phase Noise Compensation for Coherent Orthogonal Frequency Division Multiplexing in Optical Fiber Communications Systems". In: Iraqi Journal of Applied Physics, vol. 5, no. 2, pp. 3-10, April 2009.
- [1126] C. W. Chow and A. D. Ellis and F. Parmigiani. "Time-division-multiplexing using pulse position locking for 100 Gb/s applications". In: Optics Express, vol. 17, pp. 6562-6567, April 2009.
- [1127] T. Wang and Q. Chang and Y. Su. "Generation of linearized optical single sideband signal for broadband radio over fiber systems". In: Chinese Optics Letters, vol. 7, no. 4, pp. 339-343, April 2009.
- [1128] M. Noelle and R. Freund. "Comparison of 30 Gbit/s Coherent 8PSK Single Carrier and OFDM Multi Carrier Systems with Respect to Transmission Reach". In: OFC/NFOEC, no. JThA43, March 2009.
- [1129] K. L. Lee and J. L. Riding and A. V. Tran and R. S. Tucker. "Extended-Reach Gigabit Passive Optical Network for Rural Areas using Distributed Raman Amplifiers". In: OFC/NFOEC, no. NME3, March 2009.
- [1130] B. J. C. Schmidt and A.J. Lowery and L.B. Du. "Low Sample Rate Transmitter for Direct-Detection Optical OFDM". In: OFC/NFOEC, no. OWM4, March 2009.
- [1131] L. Zhu and X. Li and E. Mateo and G. Li. "Complementary FIR Filter Pair for Distributed Impairment Compensation of WDM Fiber Transmission". In: IEEE Photonics Technology Letters, vol. 21, pp. 292-294, March 2009.
- [1132] Y. Gao and F. Zhang and L. Dou and Z. Chen and A. Xu. "Intra-channel nonlinearities mitigation in pseudo-linear coherent QPSK transmission systems via nonlinear electrical equalizer". In: Optics Communications, vol. 282, pp. 2421-2425, March 2009.
- [1133] A. Gumaste. "Towards a Transponder for Serial 100 Gigabit Ethernet using a Novel Optical SERDES". In: OFC/NFOEC, no. JWA63, March 2009.

- [1134] A. Gumaste and N. Ghani. "Reach Optimized Architecture for Multi-rate Transport System (ROAMTS): One Size Does Not Fit All". In: OFC/NFOEC, no. OMQ3, March 2009.
- [1135] C. Weber and C.-A. Bunge and M. Winter and K. Petermann. "Fibre Nonlinearities in 10 and 40 Gb/s Electronically Dispersion Precompensated WDM Transmission". In: OFC/NFOEC, no. OTuD2, March 2009.
- [1136] I. Monfils and J. C. Cartledge. "Detailed Theoretical and Experimental Characterization of 10 Gb/s Clock Recovery Using a Q-Switched Self-Pulsating Laser". In: Journal of Lightwave Technology, vol. 27, no. 5, pp. 619-625, March 2009.
- [1137] Y. Yu and X. Zhang and J. B. Rosas-Fernandez and D. Huang and R. V. Penty and I. H. White. "Simultaneous multiple DWDM channel NRZ-to-RZ regenerative format conversion at 10 and 20 Gb/s". In: Optics Express, vol. 17, pp. 3964-3969, March 2009.
- [1138] D. Fritzsche and D. Breuer and A. Ehrhardt and J. Yeh and Z. Zhang and W. I. Way. "Dispersion-Tolerant 40Gb/s Field Trial over an Installed 10 Gb/s WDM 752 km Link Using Multi-Carrier Technique". In: OFC/NFOEC, no. NWD4, March 2009.
- [1139] C. W. Chow and L. Xu and C. H. Yeh and C. H. Wang and F. Y. Shih and H. K. Tsang and C. L. Pan and S. Chi. "Bidirectional ROF Transmission and Signal Remodulation Using Separate Optical Clock Distribution". In: OFC/NFOEC, no. OWP3, March 2009.
- [1140] B. Huiszoon and T. Spuesens and E. Tangdionga and A.M.J. Koonen. "The Influence of Continuous-Wave and Modulated Interference on Incoherent Spectral Codes". In: OFC/NFOEC, no. OWR1, March 2009.
- [1141] J. K. Fischer and M. Winter and K. Petermann. "Scaling of Nonlinear Threshold with Fiber Type and Channel Spacing in WDM Transmission Systems". In: OFC/NFOEC, no. JThA41, March 2009.
- [1142] M. Milosavljevic and Y. Shachaf and P. Kourtessis and J.M. Senior. "Interoperability of GPON and WiMAX for Network Capacity Enhancement and Resilience". In: Journal of Optical Communications and Networking, vol. 8, pp. 285-294, March 2009.
- [1143] P. J. Urban and E. G. C. Pluk and M. M. de Laat and F. M. Huijskens and G. D. Khoe and A. M. J. Koonen and Fellow and H. de Waardt. "1.25-Gb/s Transmission Over an Access Network Link With Tunable OADM and a Reflective SOA". In: IEEE Photonics Technology Letters, vol. 21, no. 6, pp. 380-382, March 2009.
- [1144] L. Du and A. Lowery. "Fiber Nonlinearity Compensation for CO-OFDM Systems with Periodic Dispersion Maps". In: OFC/NFOEC, no. OTu01, March 2009.
- [1145] H. Song and D.-M. Seol and B.-W. Kim. "Hardware-Accelerated Protection in Long-Reach PON". In: OFC/NFOEC, no. OTHP7, March 2009.
- [1146] A. Tan and E. Pincemin. "Performance Comparison of Duobinary Formats for 40-Gb/s and Mixed 10/40-Gb/s Long-Haul WDM Transmission on SSMF and LEAF Fibers". In: Journal of Lightwave Technology, vol. 27, pp. 396-408, February 2009.
- [1147] J and Yu and Z. Jia and M.-F. Huang and M. Haris and P. N. Ji and T. Wang and G.-K. Chang. "Applications of 40-Gb/s Chirp-Managed Laser in Access and Metro Networks". In: Journal of Lightwave Technology, vol. 27, pp. 253-265, February 2009.
- [1148] M.P. Thakur and T. J. Quinlan and C. Bock and S.D. Walker and M. Toycan and S.E.M. Dudley and D.W. Smith and A. Borghesani and D. Moodie and M. Ran and Y. Ben-Ezra. "480-Mbps, Bi-Directional, Ultra-Wideband Radio-Over-Fiber Transmission Using a 1308/1564-nm Reflective Electro-Absorption Transducer and Commercially Available VCSELs". In: Journal of Lightwave Technology, vol. 27, pp. 266-272, February 2009.
- [1149] G. Li. "Recent advances in coherent optical communication". In: Advances in Optics and Photonics, vol. 1, pp. 279-307, February 2009.

- [1150] J.Gao and X. Xu and Q. Chang and Y. Su. "40-Gb/s star 16-QAM transmitter based on single dual-drive Mach-Zehnder modulator". In: Chinese Optics Letters, vol. 7, no. 2, pp. 109-111, February 2009.
- [1151] C.A. Stolz and D. Labukhin and N. Zakhleniuk and R. Loudon and M.J. Adams. "Power fluctuations of a weakly optically-injected semiconductor laser in a period-one state". In: Optics Communications, vol. 282, pp. 2074-2080, February 2009.
- [1152] H.-C. Ji and J. H. Lee and H. Kim and P. K. J. Park and Y. C. Chung. "Effect of PDL-induced coherent crosstalk on polarization-division-multiplexed direct-detection systems". In: Optics Express, vol. 17, pp. 1169-1177, February 2009.
- [1153] C. Arellano and K.-D. Langer and J. Prat. "Reflections and Multiple Rayleigh Backscattering in WDM Single-Fiber Loopback Access Networks". In: Journal of Lightwave Technology, vol. 27, pp. 12-18, January 2009.
- [1154] N. Yan and J. del Val Puente and T. G. Silveira and A. Teixeira and A. P. S. Ferreira and E. Tangdiongga and P. Monteiro and A. M. J. Koonen. "Simulation and Experimental Characterization of SOA-MZI-Based Multiwavelength Conversion". In: Journal of Lightwave Technology, vol. 27, pp. 117-127, January 2009.
- [1155] I. Papagiannakis and C. Xia and D. Klonidis and W. Rosenkranz and A.N. Birbas and I. Tomkos. "Electronic distortion equalisation by using decision-feedback/feed-forward equaliser for transient and adiabatic chirped directly modulated lasers at 2.5 and 10 Gb/s". In: IET Optoelectronics, vol. 3, pp. 18-29, January 2009.
- [1156] M-H Chuang and H-W Tseng and L-L Jau and P-P Chin and Y-H Lee and Y-G Jan. "Analysis of System Performance for an Optical CDMA System Implemented with Synchronous Receiver". In: Journal of the Chinese Institute of Engineers, vol. 32, no. 6, pp. 861-866, January 2009.

2008

- [1157] Y. Gao and F. Zhang and L. Dou and Z. Chen and A. Xu. "Electrical post-compensation of intrachannel nonlinearities in 10GBaud coherent QPSK transmission systems". In: Optics Communications, vol. 282, pp. 992-996, November 2008.
- [1158] G. Jacobsen and E. Vanin and M. Forzati and L. Wang. "Practical Design Model of DnPSK Systems using direct BER Counting and Rigorous BER Modeling". In: Journal of Optical Communications, vol. 29, pp. 226-228, November 2008.
- [1159] L. B. Y. Du and A.J. Lowery. "Improved nonlinearity precompensation for long-haul high-data-rate transmission using coherent optical OFDM". In: Optics Express, vol. 16, no. 24, pp. 19920, November 2008.
- [1160] C.A. Stolz and D. Labukhin and N. Zakhleniuk and M.J. Adams. "Locking bandwidth of optically injected Fabry-Perot semiconductor lasers for high injection strengths". In: IET Optoelectronics, vol. 2, pp. 223-230, October 2008.
- [1161] X. Wang and B. Huang and Y. Liang and H. Liu and L. Wang and D. Huang and N. Chi. "High Speed Modulation Format Transformation from Return-to-Zero ASK To Return-to-Zero FSK Based On Nonlinear Polarization Rotation". In: APOC, vol. 7136, no. 71362W, October 2008.
- [1162] J. Gao and Y. Su. "Performance study of a 100-Gb/s transmitter with high tolerance to chromatic dispersion and PMD". In: APOC, vol. 7136, no. 71361H, October 2008.
- [1163] Y. Gao and F. Zhang and Z. Chen and A. Xu. "Statistics of Intra-channel Four-Wave Mixing induced phase noise in coherent RZ-DQPSK transmission systems". In: APOC, vol. 7136, no. 71362R, October 2008.
- [1164] L. Han and Y. Gu and H. Zhang. "A Novel Optical DPSK/PolSK Orthogonal Encoding Method for Alloptical Label Swapping". In: APOC, vol. 7136, no. 71360K, October 2008.
- [1165] H. Chen and Y. Donga and H. Hea and W. Hua and L. Lib. "Effect of Laser Frequency Offset on Optical Minimum-shift Keying Transmission System". In: APOC, vol. 7136, no. 713618, October 2008.
- [1166] H. Louchet and K. Kuzmin and C. Arellano and I. Koltchanov and A. Richter. "Modeling of Ultra-High Speed Optical Transmission Systems". In: APOC, vol. 7136, no. 7136-32, October 2008.
- [1167] Y. Peng and S. Du and K. Long. "Group-Multicast Capable Optical Virtual Private Ring with Contention Avoidance". In: APOC, vol. 7137, no. 71373S, October 2008.
- [1168] B. Huang and Y. Liang and X. Wang and D. Huang and N. Chi. "A Novel Re-modulation Method in a WDM-PON to Enhance Extinction Ratio with Considering Rayleigh and Brillouin Backscattering". In: APOC, vol. 7137, no. 71370Q, October 2008.
- [1169] S. Li and Y. Ye and X. Zheng and H. Zhang. "Data-Carried Optical Ultra-Wideband Monocycle Pulses Generation using Two DGD Modules". In: APOC, vol. 7136, no. 71363R, October 2008.
- [1170] M. Li and W. Hong and X. Zhang and W. Li and D. Huang. "All-optical 40-Gb/s RZ-DPSK to phase-incorporated ASK-Manchester format conversion". In: APOC, vol. 7136, no. 71362Z, October 2008.
- [1171] M. Li and W. Hong and X. Zhang and W. Li and D. Huang. "The study of optical FSK modulation for 40-Gb/s WDM-PON Network with Centralized Lightwave Source". In: APOC, vol. 7136, no. 71360L, October 2008.
- [1172] J. Zhao and K. K. Qureshi and Z. h. Li and C. Lu and H. Y. Tam and P. K. A. Wai. "Chromatic dispersion monitoring of DPSK signals using RF power detection". In: APOC, vol. 7136, no. 71361H, October 2008.
- [1173] R. Zhang and X. Yang and Y. Cai and W. Hu and Z. Zhang. "Residual Third-Order Dispersion Compensation in Femtosecond Pulses Transmission Using a Phase Modulator". In: APOC, vol. 7136, no. 713626, October 2008.

- [1174] W. Shuai and C. Xue and F. Fangwei and Z. Weiqin and S. Sheping. "A Method for Optimizing Optical Duobinary Transmission Systems". In: APOC, vol. 7136, no. 71361B, October 2008.
- [1175] H. Louchet and K. Kuzmin and A. Richter. "Improved DSP algorithms for coherent 16-QAM transmission". In: ECOC, vol. Tu.1.E.6, September 2008.
- [1176] K. Choi and Y. Jhon and S. Lee and J. Park. "All-Optical Five-Functional Logic Generator by Using Semiconductor Optical Amplifiers". In: NUSOD, no. MP8, September 2008.
- [1177] C. Weber and K. Petermann. "Impact of Fibre Nonlinearities in Electronic Dispersion Compensation Systems at 40 Gb/s". In: ECOC, no. P.4.10, September 2008.
- [1178] T. Ajmal and T. Quinlan and R. Razavi and E. Hugues Salas and S.D. Walker. "Design of a 10Gbps Optical Burst Mode DPSK Receiver for Data and Clock Recovery". In: ECOC, no. We.2., September 2008.
- [1179] B. S. Krongold and Y. Tang and W. Shieh. "Fiber Nonlinearity Mitigation by PAPR Reduction in Coherent Optical OFDM Systems via Active Constellation Extension". In: ECOC, no. P.4.13, September 2008.
- [1180] A. Pizzinat and F. Payoux and B. Charbonnie and S. Meyer. "Ultra wideband over fibre transparent architecture for high-bit-rate home networks". In: Annals of telecommunications (Springer), vol. 63, September 2008.
- [1181] L. B. Y. Du and A.J. Lowery. "Improving Nonlinear Precompensation in Direct-Detection Optical OFDM Communications Systems". In: ECOC, no. P.4.08, September 2008.
- [1182] T. Spuesens and B. Huiszoon and E. Tangdionga and A.M.J. Koonen. "Versatile Broadband Service Delivery on PON Employing a Hybrid Optical Code Division Multiple Access/Radio-over-Fiber System". In: ECOC, no. P.6.23, September 2008.
- [1183] E. Mateo and L. Zhu and G. Li. "Impact of XPM and FWM on the digital implementation of impairment compensation for WDM transmission using backward propagation". In: Optics Express, vol. 16, pp. 16124-16137, September 2008.
- [1184] R.Llorente and M. P. Thakur and M.Morant and S. D. Walker and J. Marti. "Performance comparison of radio-over-fibre UWB distribution in SSMF and MMF optical media". In: ECOC, no. Tu.3.E.2, September 2008.
- [1185] C. Lim and K.L. Lee and A. Nirmalathas and D. Novak and R. Waterhouse. "Multifunctional Optical Interface for Fiber-Radio Systems in Heterogeneous Access Networks". In: Journal of Lightwave Technology, vol. 26, pp. 2857-2864, August 2008.
- [1186] S.B. Ahmad-Anas and M.K. Abdullah and M. Mokhtar and S.D. Walker. "Multiple access interference elimination with enhanced chromatic dispersion tolerance in SAC OCDMA". In: IEICE Electronics Express, vol. 5, pp. 617-623, August 2008.
- [1187] P. Shen and N. J. Gomes and W. P. Shillue and S. Albanna. "The Temporal Drift Due to Polarization Noise in a Photonic Phase Reference Distribution System". In: Journal of Lightwave Technology, vol. 26, pp. 2754-2754, August 2008.
- [1188] C.-T. Lin and J. Chen and S.-P.Dai and P.-C. Peng and S. Chi. "Impact of Nonlinear Transfer Function and Imperfect Splitting Ratio of MZM on Optical Up-Conversion Employing Double Sideband With Carrier Suppression Modulation". In: Journal of Lightwave Technology, vol. 26, pp. 2449-2459, August 2008.
- [1189] J. Li and L. Zhang and D. Zhang and F. Zhang and Z. Chen. "Electrical Joint Equalization for PMD-Induced Performance Degradation in Direct-Detection Polarization-Multiplexed Transmission Systems". In: IEEE Photonics Technology Letters, vol. 20, pp. 1357-1359, August 2008.
- [1190] H. Buchta and E. Patzak. "Analysis of the Physical Impairments on Maximum Size and Throughput of SOA-Based Optical Burst Switching Nodes". In: Journal of Lightwave Technology, vol. 26, pp. 2821-2830, August 2008.

- [1191] H. Buchta and C. M. Gauger and E. Patzak. "Maximum Size and Throughput of SOA-Based Optical Burst Switching Nodes With Limited Tuning-Range Wavelength Converters and FDL Buffers". In: Journal of Lightwave Technology, vol. 26, pp. 2919-2927, August 2008.
- [1192] J. Zhang and A. Hone and T.E. Darcie. "Phase-Modulated Microwave-Photonic Link With Optical-Phase-Locked-Loop Enhanced Interferometric Phase Detection". In: Journal of Lightwave Technology, vol. 26, pp. 2549, August 2008.
- [1193] K.Huybrechts and G. Morthier and R. Baets. "Fast all-optical flip-flop based on a single distributed feedback laser diode". In: Optics Express, vol. 16, pp. 11405-11410, July 2008.
- [1194] D. F. Hewitt and N. Nadarajah. "Comparisons between Single and Double Sideband Direct-Detection and Coherent Baseband OFDM Optical Transmission". In: ACOFT, no. 1-2, July 2008.
- [1195] B. Huiszoon and F. T. H. den Hartog and M. Garcia Larrode and A. M. J. Koonen. "Layer 2 and 3 Contention Resolution and Radio-Over-Fiber in OCDMA PON for Transparent Optical Access in Personal Networks". In: Journal of Lightwave Technology, vol. 26, no. 13, pp. 1752-, July 2008.
- [1196] Q. Chang and T. Ye and Y. Su. "Generation of optical carrier suppressed differential phase shift keying (OCS-DPSK) format using one dual-parallel Mach-Zehnder modulator in radio over fiber systems". In: Optics Express, vol. 16, pp. 10421-10426, July 2008.
- [1197] M. Mohamed and X. Zhang and B.Hraimel and K. Wu. "Frequency sixupler for millimeter-wave over fiber systems". In: Optics Express, vol. 16, pp. 10141-10151, July 2008.
- [1198] M. Mohamed and X. Zhang and B.Hraimel and K. Wu. "Analysis of frequency quadrupling using a single Mach-Zehnder modulator for millimeter-wave generation and distribution over fiber systems". In: Optics Express, vol. 16, pp. 10786-10802, July 2008.
- [1199] K. E. Cornick and K. Hinton and S. D. Dods and P.M. Farrell. "A Framework for Evaluating the System Penalty From Polarization-Mode Dispersion Using Different Performance Monitoring Techniques". In: Journal of Lightwave Technology, vol. 26, pp. 1790-1797, July 2008.
- [1200] A. Szabo and S. Zsigmond and T. Cinkler. "Impact of physical effects onto the optimal signal power in CWDM optical networks". In: CSNDSP, pp. 428-432, July 2008.
- [1201] J. C. Li and K. Hinton and P. M. Farrell and S. D. Dods. "Optical impairment outage computation". In: Optics Express, vol. 16, pp. 10529-10534, July 2008.
- [1202] L.M. Augustin and J.J.G.M. van der Tol and E.J. Geluk and Y.S Oei and M.K. Smit. "Method for polarization effect suppression in semiconductor optical amplifiers". In: ECIO, no. ThA5, June 2008.
- [1203] B. Masella and X. Zhang. "Linearized optical single sideband Mach-Zehnder electro-optic modulator for radio over fiber systems". In: Optics Express, vol. 16, pp. 9181-9190, June 2008.
- [1204] M. Bakaul. "Low-Cost PMD-Insensitive and Dispersion Tolerant In-Band OSNR Monitor Based on Uncorrelated Beat Noise Measurement". In: IEEE Photonics Technology Letters, vol. 20, pp. 906-908, June 2008.
- [1205] Y. Tang and W. Shieh. "Transmission of 100 Gbit/s WDM systems with coherent optical OFDM". In: Optics Letters, vol. 33, pp. 588-590, April 2008.
- [1206] Y. Tang and W. Shieh. "0.75 V micro-power SI memory cell with feedthrough error reduction". In: Electronics Letters, vol. 44, pp. 588-589, April 2008.
- [1207] L. B. Y. Du and A.J. Lowery. "Fiber nonlinearity precompensation for longhaul links using direct-detection optical OFDM". In: Optics Express, vol. 16, pp. 6209-6215, April 2008.

- [1208] M. P. Dlubek and A.J. Phillips and E. C. Larkins. "Nonlinear Evolution of Gaussian ASE Noise in ZMNL Fiber". In: *Journal of Lightwave Technology*, vol. 26, pp. 891-898, April 2008.
- [1209] H. Y. Ahmed and I. Faye and N.M.Saad. "Zero Vectors Combinatorial Code Family for Spectral Amplitude Coding (SAC-OCDMA)". In: *IJCSNS International Journal of Computer Science and Network Security*, vol. 8, pp. 20-26, March 2008.
- [1210] D. Hewitt and A. V. Tran and C.-J. Chae. "10 Gb/s Long-Reach Optical Access with Multi-Mode Fiber Distribution Using Baseband Single-Sideband OFDM". In: *OFC/NFOEC*, no. JThA111, February 2008.
- [1211] Y. Shachaf and P. Kourtessis and J. M. Senior. "A Full-duplex Access Network based on CWDM-routed PONs". In: *OFC/NFOEC*, no. JThA101, February 2008.
- [1212] C. W. Chow and Y. Liu and C. H. Kwok. "Signal Remodulation with High Extinction Ratio 10-Gb/s DPSK signal for DWDM-PONs". In: *OFC/NFOEC*, no. OThT2, February 2008.
- [1213] C. W. Chow and G. Talli and A. D. Ellis and P. D. Townsend. "Rayleigh noise mitigation in DWDM LR-PONs using carrier suppressed subcarrier-amplitude modulated phase shift keying". In: *Optics Express*, vol. 16, pp. 1860-1866, February 2008.
- [1214] K. Qiu and Y. Ling. "Novel optical packet with non-return-to-zero label and duobinary carrier-suppressed return-to-zero payload". In: *Chinese Optics Letters*, vol. 6, no. 2, pp. 96-99, February 2008.
- [1215] A. J. Lowery. "Improving Sensitivity and Spectral Efficiency in Direct-Detection Optical OFDM Systems". In: *OFC/NFOEC*, no. OMM4, February 2008.
- [1216] Y.-K. Huang and J. Hu and T. Wang and P. R. Prucnal. "Virtual I/Q Multiplexing in Optical Code Division for Secure Local Area OFDM Transport". In: *OFC/NFOEC*, no. OMR1, February 2008.
- [1217] C.-T. Lin and P. T. Shih and J. Chen and P.-C. Peng and S.-P. Dai and W.-Q. Xue and S. Chi. "Generation of Carrier Suppressed Optical mm-wave Signals using Frequency Quadrupling and no Optical Filtering". In: *OFC/NFOEC*, no. JThA73, February 2008.
- [1218] X. Li and F. Zhang and X. Zhang and D. Zhang and Z. Chen and A. Xu. "Free spectral range optimization of return-to-zero differential phase-shift keyed demodulation in 40 Gbit/s nonlinear transmission". In: *Optics Express*, vol. 16, pp. 2056-2061, February 2008.
- [1219] D. Zhang and A. Xu and F. Zhang and Z. Chen. "Intrachannel nonlinearity induced-degree of polarization degradation in high-speed transmission". In: *Microwave and Optical Technology Letters*, vol. 50, pp. 312-314, February 2008.
- [1220] K.Huybrechts and W. D'Oosterlinck and W. Morthier and R. Baets. "Proposal for an All-Optical Flip-Flop Using a Single Distributed Feedback Laser Diode". In: *IEEE Photonics Technology Letters*, vol. 20, pp. 18-20, January 2008.
- [1221] H. Louchet and K. Kuzmin and A. Richter. "Efficient BER Estimation for Electrical QAM Signal in Radio-Over-Fiber Transmission". In: *IEEE Photonics Technology Letters*, vol. 20, pp. 144-146, January 2008.
- [1222] A. J. Lowery. "Amplified-spontaneous noise limit of optical OFDM lightwave systems". In: *Optics Express*, vol. 16, pp. 860-865, January 2008.
- [1223] B. J. C. Schmidt and A. J. Lowery and J. Armstrong. "Experimental Demonstrations of Electronic Dispersion Compensation for Long-Haul Transmission Using Direct-Detection Optical OFDM". In: *Journal of Lightwave Technology*, vol. 26, pp. 196-203, January 2008.
- [1224] J. M. Chavez Boggio and J. R. Windmiller and M. Knutzen and R. Jiang and C. Bres and N. Alic and B. Stossel and K. Rottwitt and S. Radic. "730-nm optical parametric conversion from near- to short-wave infrared band". In: *Optics Express*, vol. 16, pp. 5435-5443, January 2008.

- [1225] X. Li and X. Chen and G. Goldfarb and E. Mateo and I. Kim and F. Yaman and G. Li. "Electronic post-compensation of WDM transmission impairments using coherent detection and digital signal processing". In: Optics Express, vol. 16, pp. 880-888, January 2008.

2007

- [1226] Z. Xu and X. Zhang and J. Yu. "Frequency upconversion of multiple RF signals using optical carrier suppression for radio over fiber downlinks". In: *Optics Express*, vol. 15, pp. 16737-16747, December 2007.
- [1227] D. Zhang and X. Zhang and X. Li and A. Xu and Z. Wang and F. Zhang and Z. Chen. "Phase Shift of Recovered Clock due to Group Delay Ripple in Fiber Bragg Grating and PMD". In: *Microwave and Optical Technology Letters*, vol. 49, pp. 3066-3068, December 2007.
- [1228] D. Ye and W. Zhong. "Identifying various impairments of optical channels using amplitude histogram". In: *Optical Engineering*, vol. 46, no. 12, pp. 125002-1 - 125002-6, December 2007.
- [1229] X. Li and F. Zhang and Z. Chen and A. Xu. "Suppression of XPM and XPM-induced nonlinear phase noise for RZ-DPSK signals in 40 Gbit/s WDM transmission systems with optimum dispersion mapping". In: *Optics Express*, vol. 15, pp. 18247-18252, December 2007.
- [1230] I. Joindot and M. Joindot. "Interplay Between Group-Delay Ripple in Wavelength-Selective Switch and Propagation With or Without Nonlinear Effects". In: *Journal of Lightwave Technology*, vol. 25, pp. 3202-3209, November 2007.
- [1231] J. Mo and Y. J. Wen and Y. Wang and C. Lu and W.-D. Zhong. "Externally Modulated Optical Minimum Shift Keying Format". In: *Journal of Lightwave Technology*, vol. 25, pp. 3151-3160, October 2007.
- [1232] C. Vazquez and J. Montalvo and P. Lallana. "Ring Resonators with Sagnac Loops for Photonic Processing in DWDM Backbone Networks". In: *WISP*, pp. 1-5, October 2007.
- [1233] M. Toycan and I. Tsalamanis and M. Thakur and S. D. Walker and M. C. Parker. "Graeco-Latin-routed, self-wrapping, FSR-interleaved, AWG-based access network". In: *Journal of Optical Networking*, vol. 6, pp. 654-662, October 2007.
- [1234] A.J. Lowery and . "Fiber Nonlinearity Mitigation in Optical Links That Use OFDM for Dispersion Compensation". In: *IEEE Photonics Technology Letters*, vol. 19, pp. 1556-1558, October 2007.
- [1235] T. Banky and T. Berceci. "Opto-electronic Feedback Loop for Phase Noise Suppression at FET Based RF Oscillators". In: *International Topical Meeting on Microwave Photonics*, pp. 198 - 201, October 2007.
- [1236] H. Louchet and A. Richter. "Electrical Equalization in Fiber-optic Transmission Systems". In: *Milcom*, no. Session ACT 5.4, October 2007.
- [1237] N. Liu and W.D. Zhong. "Simultaneous differential phase-shift keying payload and subcarrier-multiplexed label generation using a single modulator and its application to dispersion monitoring". In: *Optical Engineering*, vol. 46, September 2007.
- [1238] J.S. Chen and S.-L. Lee and H.-C. Kung and H.-W. Tsao and S.X. Wang. "Performance Analysis for All-Optical Label Swapping Routers Based on Two-Stage Wavelength Conversion". In: *CLEO PR*, September 2007.
- [1239] R. Gaudio and A. Nocivelli and H. Kragl and O. Ziemann and N. Weber and D. Jaeger and T. Koonen and C. Lezzi and A. Bluschke and S. Randell. "Status and recent results from the POF-ALL EU project: large-core plastic fibers for low cost, high-speed short reach applications". In: *ECOC*, no. 05.1.2, September 2007.
- [1240] A. J. Lowery and S. Wang and M. Premaratne. "Calculation of power limit due to fiber nonlinearity in optical OFDM systems". In: *Optics Express*, vol. 15, pp. 13282-13287, September 2007.
- [1241] A. Richter and H. Louchet and I. Koltchanov. "The Modeling of High-Speed Optical Transmission Systems". In: *SOCN 2007*, no. Th4 (Invited), September 2007.

- [1242] T. Healy and F.C. Garcia Gunning and E. Pincemin and B. Cuenot and A.D. Ellis. "1,200 km SMF (100 km spans) 280 Gbit/s Coherent WDM Transmission using Hybrid Raman/EDFA Amplification". In: ECOC, no. 01.3.5, September 2007.
- [1243] F. Schaich and J. Speidel. "Wavelength-Time Coding for Reduction of Linear and Nonlinear Crosstalk in DWDM-Systems". In: Journal of Selected Topics in Quantum Electronics, vol. 13, pp. 1429-1432, September 2007.
- [1244] K.Wang and X.Zheng and H.Zhang and Y.Guo. "A Radio-Over-Fiber Downstream Link Employing Carrier-Suppressed Modulation Scheme to Regenerate and Transmit Vector Signals". In: IEEE Photonics Technology Letters, vol. 19, pp. 1365-1367, September 2007.
- [1245] J. K. Fischer and K. Petermann. "Reduction of intra-channel four-wave mixing through pairwise or pulse-to-pulse alternate polarization of carrier-suppressed RZ signals". In: ECOC, no. 06.2.2, September 2007.
- [1246] M. Malach and C.-A. Bunge and K. Petermann. "Fibre-independent Dispersion-Map Optimization for the Suppression of XPM and SPM in Fibre-Optical Transmission Systems". In: ECOC, no. 090, September 2007.
- [1247] H. Louchet and A. Richter. "Novel Scheme for High-Bit-Rate Coherent-OFDM Transmission without PLL". In: ECOC, no. 087, September 2007.
- [1248] H. Louchet and A. Richter. "Limitations of MLSE-Viterbi receivers due to clocking errors". In: ECOC, no. 09.1.6, September 2007.
- [1249] A. J. Lowery. "Fiber nonlinearity pre- and post-compensation for long-haul optical links using OFDM". In: Optics Express, vol. 15, pp. 12965-12970, September 2007.
- [1250] A. Lowery. "Adaptation of Orthogonal Frequency Division Multiplexing (OFDM) to Compensate Impairments in Optical Transmission Systems". In: ECOC, no. 04.2.1, September 2007.
- [1251] R. Ludwig and S. Weisser and C. Schmidt-Langhorst and L. Raddatz and C. Schubert. "Unrepeated Transmission of 160 Gb/s RZ-DPSK over 240 km Dispersion Managed Fiber". In: ECOC, no. 02.3.2, September 2007.
- [1252] L. Han and H. Wen and H. Zhang and Y. Guo. "All-optical wavelength conversion for polarization shift keying signal based on four-wave mixing in a semiconductor optical amplifier". In: Optical Engineering Letters, vol. 46, pp. 090501-1 - 090501-3, September 2007.
- [1253] Y. Shachaf and P. Kourtessis and J. M. Senior. "An interoperable access network based on CWDM-routed PONs". In: ECOC, no. 127, September 2007.
- [1254] Z. Tong and L. Xue and Z. Hao. "Study of Interferometric Noise Analysis in Optical CDMA System". In: 8th International Conference on Electronic Measurement and Instruments, 2007. ICEMI '07, August 2007.
- [1255] Ch. Kouloumentas and N. Pleros and P. Zakyntinos and D. Petrantonakis and D. Apostolopoulos and O. Zouraraki and A. Tzanakaki and H. Avramopoulos and I. Tomkos. "Packet clock recovery using a bismuth oxide fiber-based optical power limiter". In: Optics Express, vol. 15, pp. 9948-9953, August 2007.
- [1256] E. Pincemin and A. Tan and A. Tonello and S. Wabnitz and J.D. Ania-Castanon and V. Mezenstev and S. Turitsyn and Y. Jaouen and L. Gruener-Nielsen. "Performance comparison of 40 Gb/s ULH transmissions using CSRZ-ASK or CSRZ-DPSK modulation formats on UltraWave fiber TM fiber". In: Optics Express, vol. 15, pp. 11142-11153, August 2007.
- [1257] B. Cuenot and A.D. Ellis. "WDM signal regeneration using a single alloptical device". In: Optics Express, pp. 11492-11499, August 2007.

- [1258] M. Haris and J. Yu and G. Chang. "Impact of Free Spectral Range Optimization on RZ/NRZ DQPSK Modulation Format with Strong Optical Filtering for Ultra-High Data Rate Systems". In: LEOS Summer Topicals, no. MP2, July 2007.
- [1259] A. Richter and H. Louchet and I. Koltchanov. "Pitfalls when Modeling High-Speed Optical Transmission Systems". In: LEOS Summer Topicals, no. TuE1.1 (Invited), pp. 238-239, July 2007.
- [1260] A. Chowdhury and Z. Jia and G.-K. Chang and R. Younce. "Novel 100Gbps Ethernet Systems for Next-generation Metro Transport and Wide-area Access Networks using Optical carrier suppression and separation Technique". In: LEOS Summer Topicals, no. TuE1.2, pp. 240-241, July 2007.
- [1261] C. Lim and K.-L. Lee and A. Nirmalathas. "Characterization of Multi-Functional Optical Interface for Multi-Channel Fiber-Radio Transmission in Heterogeneous Access Networks". In: LEOS Annual Meeting, no. ME5, pp. 46-47, July 2007.
- [1262] P. M. Anandarajah and A. M. Clarke and C. Guignard and L. Bramerie and L. P. Barry and J. D. Harvey and J. C. Simon. "System-Performance Analysis of Optimized Gain-Switched Pulse Source Employed in 40- and 80-Gb/s OTDM Systems". In: Journal of Lightwave Technology, vol. 25, pp. 1495-1502, June 2007.
- [1263] C. W. Chow and A. D. Ellis and D. Cotter. "Asynchronous Digital Optical Regenerator for 4 x 40 Gbit/s WDM to 160 Gbit/s OTDM Conversion". In: Optics Express, vol. 15, pp. 8507-8512, June 2007.
- [1264] C.W. Chow and A.D. Ellis. "Regenerative Properties of Asynchronous Digital Optical Regenerator Using a Single EAM". In: CLEO Europe, June 2007.
- [1265] K. Yiannopoulos and K. G. Vlachos and Member and E.I Varvarigos. "Multiple-Input-Buffer and Shared-Buffer Architectures for Optical Packet- and Burst-Switching Networks". In: Journal of Lightwave Technology, vol. 25, pp. 1379-1389, June 2007.
- [1266] B. Lee and M. Lee and H. Song. "Simple ring-type passive optical network with two-fiber protection scheme and performance analysis". In: Optical Engineering, vol. 46, no. 6, pp. 065002-1 - 065002-6, June 2007.
- [1267] Y. Shachaf and C. -H. Chang and P. Kourtessis and J. M. Senior. "Multi-PON access network using a coarse AWG for smooth migration from TDM to WDM PON". In: Optics Express, vol. 15, pp. 7840-7844, June 2007.
- [1268] W. D'Oosterlinck and F. Ohman and J. Buron and S. Sales and A. P. Pardo and A. Ortigosa-Blanch and G. Puerto and G. Morthier and R. Baets. "All-Optical flip-flop operation using a SOA and DFB laser diode optical feedback combination". In: Optics Express, vol. 15, pp. 6190-6199, May 2007.
- [1269] J. del Val Puente and Ni Yan and E. Tangdiongga and T. Koonen. "Performance Comparison of Multi-wavelength Conversion Using SOA-MZI and DSF for Optical Wavelength Multicast". In: 11th International IFIP TC6 Conference, ONDM, pp. 1-10, May 2007.
- [1270] D Ye and W.D. Zhong. "Improved BER monitoring based on amplitude histogram and multi-Gaussian curve fitting". In: Journal of Optical Networking, vol. 6, pp. 584-598, May 2007.
- [1271] Y. Liu and C.W. Chow and C.H. Kwoka and H.K. Tsanga and C. Lina. "Dynamic-channel-equalizer using in-line channel power monitor and electronic variable optical attenuator". In: Optics Communications, vol. 272, pp. 87-91, April 2007.
- [1272] D. Patel and B. Maxum. "Dual-soliton dense dispersion-managed system with BL product of 2x1015 b/s km". In: Optics Express, vol. 15, pp. 3650-3655, April 2007.
- [1273] X.F. Cheng and Y. J. Wena and Y. Wanga. "Orthogonal labelling scheme using inverted RZ as payload". In: Optics Communications, vol. 272, pp. 44-51, April 2007.
- [1274] H. LeMinh and Z. Ghassemlooy and W. Ng. "All-optical flip flop based on a symmetric Mach-Zehnder switch with a feedback loop and multiple forward set/reset signals". In: Optical Engineering Letters, vol. 46, pp. 040501-1 - 040501-3, April 2007.

- [1275] L. Provost and C. Finot and P. Petropoulos and K. Mukasa and D. J. Richardson. "Design scaling rules for 2R-optical self-phase modulation-based regenerators". In: *Optics Express*, vol. 15, pp. 5100-5113, April 2007.
- [1276] Y. Liu and C. W. Chow and C. H. Kwok and H. K. Tsang and Chinlon Lin. "Optical Burst and Transient Equalizer for 10Gb/s Amplified WDM-PON". In: *OFC/NFOEC*, no. OThU7, March 2007.
- [1277] D. Z. Chen and M. F. Lane. "Emerging Network Need for Alien Wavelength Management". In: *OFC/NFOEC*, no. NTuD5, March 2007.
- [1278] G. Mouil Sil and H. Louchet and A. Richter. "Efficient BER estimation for Radio-over-Fiber systems". In: *OFC/NFOEC*, no. JThA82, March 2007.
- [1279] J. Mo and Y. J. Wen and Y. Wang. "Performance evaluation of externally modulated optical minimum shift keyed data". In: *Optical Engineering*, vol. 46, March 2007.
- [1280] Z. Xu and Y. J. Wen and W.-D. Zhong and C.-J. Chae and X.-F. Cheng and Y. Wang and C. Lu and J. Shankar. "High-speed WDM-PON using CW injectionlocked Fabry-Perot laser diodes". In: *Optics Express*, vol. 15, pp. 2953-2962, March 2007.
- [1281] P. M. Farrell and K. E. Cornick K. Hinton and S. D. Dods. "Quantifying the Dependence of Degree of Polarization on Polarization Mode Dispersion and the Optical Spectrum". In: *OFC/NFOEC*, no. OMH5, March 2007.
- [1282] N. Cvijetic and L. Xu and T. Wang. "Adaptive PMD Compensation using OFDM in Long-Haul 10Gb/s DWDM Systems". In: *OFC/NFOEC*, no. OTuA5, March 2007.
- [1283] A.M.J. Koonen and J. Yang and M.S. Alfiad and X. Li and H.P.A. van den Boom. "High-Capacity Data Transport via Large-Core Plastic Optical Fiber Links using Quadrature Amplitude Modulation". In: *OFC/NFOEC*, no. OMR6, March 2007.
- [1284] M. Haverkamp and G. Kochem and K. Boucke and E. Schulze and H. Roehle. "1.1W Four-Wavelength Raman Pump Using BH Lasers". In: *OFC/NFOEC*, no. OMK7, March 2007.
- [1285] A. Richter and H. Louchet and I. Koltchanov and J. D. Farina. "Design of Optical Access Systems using Computer Modeling". In: *Journal of Communications*, vol. 2, pp. 39-44, March 2007.
- [1286] K. E. Cornick K. Hinton and S. D. Dods and P. M. Farrell. "Comparison of Methods for Monitoring PMD-Induced Penalty". In: *OFC/NFOEC*, no. JThA49, March 2007.
- [1287] T. B. Anderson and K. Clarke and S. D. Dods and M. Bakaul. "Robust, Low Cost, In-Band Optical Signal to Noise Monitoring Using Polarization Diversity". In: *OFC/NFOEC*, no. OMM3, March 2007.
- [1288] C. W. Chow and G. Talli and P. D. Townsend. "Rayleigh Noise Reduction in 10-Gb/s DWDM-PONs by Wavelength Detuning and Phase-Modulation-Induced Spectral Broadening". In: *IEEE Photonics Technology Letters*, vol. 19, pp. 423-425, March 2007.
- [1289] C. W. Chow and A. D. Ellis. "Asynchronous Digital Optical Regenerator by an EAM-loop for 4 x 40Gb/s WDM to 160Gb/s OTDM Conversion". In: *OFC/NFOEC*, no. JThA54, March 2007.
- [1290] R. Glatty and P. Guignard and P. Chanclou. "Flexibility in Access Networks : a Novel WDMA/TDMA Scheme for Passive Optical Networks". In: *OFC/NFOEC*, no. JThA77, March 2007.
- [1291] A. Akhtar and L. Pavel and S. Kumar. "Impact of Walk-off on FWM in RZ-OOK Transmission". In: *OFC/NFOEC*, no. JWA41, March 2007.
- [1292] A. M. Clarke and P. M. Anandarajah and L. Bramerie and C. Guignard and R. Maher and D. Massoubre and A. Shen and J. L. Oudar and L. P. Barry and J. C. Simon. "80-Gb/s OTDM System Analysis of a Vertical Microcavity-Based Saturable Absorber for the Enhancement of Pulse Pedestal Suppression". In: *IEEE Photonics Technology Letters*, vol. 19, pp. 321-323, March 2007.

- [1293] N. Liu and W.-D. Zhong and Y. J. Wen and Z. Li. "New transmitter configuration for subcarrier multiplexed DPSK systems and its applications to chromatic dispersion monitoring". In: Optics Express, vol. 15, pp. 839-844, February 2007.
- [1294] D. Z. Chen and T. J. Xia and G. Wellbrock and P. Mamyshev and S. Penticost and G. Grosso and A. Puc and P. Perrier and H. Fevrier. "New Field Trial Distance Record of 3040 km on Wide Reach WDM With 10 and 40 Gb/s Transmission Including OC-768 Traffic Without Regeneration". In: Journal of Lightwave Technology, vol. 25, pp. 28-37, January 2007.
- [1295] H. G. Batshon and I. B. Djordjevic and B. V. Vasic. "An Improved Technique for Suppression of Intrachannel Four-Wave Mixing in 40-Gb/s Optical Transmission Systems". In: IEEE Photonics Technology Letters, vol. 19, pp. 67 - 69, January 2007.
- [1296] E. Mutafungwa. "Comparative analysis of the traffic performance of fiber-impairment limited WDM and hybrid OCDM/WD networks". In: Photonic Network Communications, vol. 13, pp. 53-66, January 2007.
- [1297] A. J. Lowery and L. B. Du and J. Armstrong. "Performance of Optical OFDM in Ultralong-Haul WDM Lightwave Systems". In: Journal of Lightwave Technology, vol. 25, pp. 131-138, January 2007.
- [1298] E. Yamazaki and F. Inuzuka and K. Yonenaga and A. Takada and M. Koga. "Compensation of Interchannel Crosstalk Induced by Optical Fiber Nonlinearity in Carrier Phase-Locked WDM System". In: IEEE Photonics Technology Letters, vol. 19, pp. 9-11, January 2007.
- [1299] I. T. Monroy and Sun-Jong Kim and C. Peucheret and P. Jeppesen. "Wavelength shift keying modulation up to 35 Gb/s with wavelength tone reuse to multiplex two 40 Gb/s DPSK signals". In: Optical Fiber Technology, vol. 13, pp. 13-17, January 2007.

2006

- [1300] F. He and J.H.V. Price and K. T. Vu and A. Malinowski and J. K. Sahu and D. J. Richardson. "Optimisation of cascaded Yb fiber amplifier chains using numerical-modelling". In: *Optics Express*, vol. 14, pp. 12846-12858, December 2006.
- [1301] E. Pincemin and A. Tan and A. Bezar and A. Tonello and S. Wabnitz and J. D. Ania-Castanon and S. Turitsyn. "Robustness of 40 Gb/s ASK modulation formats in the practical system infrastructure". In: *Optics Express*, vol. 14, pp. 12049-12062, December 2006.
- [1302] A. Chowdhury and J. Yu and G.K. Chang. "Same Wavelength Packet Switching in Optical Label Switched Networks". In: *Journal of Lightwave Technology*, vol. 24, pp. 4838-4849, December 2006.
- [1303] C. Al Sayeed and A. Vukovic and O. Yang and H. Hua. "Hybrid Low Loss Architecture for Reconfigurable Optical Add/Drop Multiplexer". In: *IEEEGlobeCom*, pp. 1-5, November 2006.
- [1304] P. Laurencio and Sandra O. Simoes and Maria C. R. Medeiros. "Impact of the Combined Effect of RIN and Intermodulation Distortion on OSSB/SCM Systems". In: *Journal of Lightwave Technology*, vol. 24, pp. 4250-4262, November 2006.
- [1305] A. Akhtar and L.Pavel and S. Kumar. "Modeling and Analysis of the Contribution of Channel Walk-Off to Nondegenerate and Degenerate Four-Wave-Mixing Noise in RZ-OOK Optical Transmission Systems". In: *Journal of Lightwave Technology*, vol. 24, pp. 4269-4285, November 2006.
- [1306] A. Richter and J. D. Farina. "Photonic Design Automation of Optical Communication Systems (Tutorial)". In: *Globecom, Design & Developers Forum*, no. Session D5, November 2006.
- [1307] G. Morthier and W. D'Oosterlinck and S. Sales. "Numerical study of ultra-high speed wavelength conversion using a Gain-Clamped SOA in combination with optical filtering laser.". In: *Photonics in Switching*, no. 03.2, October 2006.
- [1308] R. Franzl and D. Gurkan and D. Benhaddou and A. Mickelson. "E-Learning Laboratories for Optical Circuits: Separation of Imperfections in Technology and Teaching Methodologies". In: *IJME-Intertech*, no. ENT 103-094, October 2006.
- [1309] Y.K. Huang and I. Glesk and R. Shankar and P. R. Prucnal. "Simultaneous all-optical 3R regeneration scheme with improved scalability using TOAD". In: *Optics Express*, vol. 14, pp. 10339-10344, October 2006.
- [1310] G. Puerto and B. Ortega and M. D. Manzanedo and A. Martinez and D. Pastor and J. Capmany and G. Kovacs. "Dimensioning of 10 Gbit/s all-optical packet switched networks based on optical label swapping routers with multistage 2R regeneration". In: *Optics Express*, vol. 14, pp. 10298-10306, October 2006.
- [1311] W. D'Oosterlinck and G. Morthier and R. Baets and T. Erneux. "Simulation of the switching of an All-Optical Flip-Flop based on a SOA/DFB-Laser Diode Optical Feedback Scheme". In: *Photonics in Switching*, no. 01.3, October 2006.
- [1312] A. Richter and H. Louchet and I. Koltchanov and J. D. Farina. "Modeling Optical Transport in Wireless Networks". In: *Milcom*, no. Session 09H1, October 2006.
- [1313] K. Khairi and B. Lee and M. Kadir and R. Mohamad and M.Salleh and K. Dimiyati. "Performance Improvement on Optical Spectral CDMA System using DCF". In: *NUSOD*, no. TuP14, September 2006.
- [1314] A.M.J. Koonen and X. Li and H.P.A. van den Boom. "Quadrature Modulation Techniques for High Capacity Data Transport over Polymer Optical Fibre Links". In: *ECOC*, no. We4.5.3, September 2006.
- [1315] C. Son and S. Kim and Y. Jhon and Y. Byun and S. Lee and D. Woo and S.Kim and T. Yoon. "Design of All-Optical Multi-functional Logic Gate in Single Format by Using Semiconductor Optical Amplifiers". In: *NUSOD*, no. TuP12, September 2006.

- [1316] B. Lee and R. Mohamad and K. Dimyati. "Performance Simulation of Multi Protocol Optical Switch (MPOS) with Multicasting Capability for Optical GRID Networks". In: NUSOD, no. WD2, September 2006.
- [1317] C. Weber and J. K. Fischer and C.-A. Bunge and K. Petermann. "Electronic Precompensation of Intra-Channel Nonlinearities at 40 Gbit/s". In: ECOC, no. We1.5.4, September 2006.
- [1318] C. R. Batchellor and O. Gerstel. "Protection in Core Packet Networks: Layer 1 or Layer 3?". In: ECOC, no. Tu3.6.4, September 2006.
- [1319] J. K. Fischer and K. Jamshidi and H. Louchet C.-A. Bunge and K. Petermann. "Equivalent dispersion maps in fibre-optic communication systems". In: ECOC, no. We3.P.134, September 2006.
- [1320] M. Malach and C.-A. Bunge and K. Petermann. "Fibre-Independent Optimum Dispersion Mapping for SPM and XPM Suppression in 10 Gbit/s WDM NRZ Optical Transmission Systems". In: ECOC, no. We3.P.130, September 2006.
- [1321] D. F. Hewitt and E. Skafidas. "Performance and Applications of Gigabit OFDM over Optical Fibre Systems in Metro and Access Networks". In: ECOC, no. We3.P.154, September 2006.
- [1322] O.M. Diaz and J. Prat and I. Tafur Monroy and H. de Waardt. "Monitoring of Mixed PMD and Coherent Crosstalk in a 10 Gb/s NRZ System with an Electrical Spectrum Domain Technique". In: ECOC, no. We3.P.95, September 2006.
- [1323] S. Kim and J. Kim and C. Son and G. Kim and Y. Byun and Y. Jhon and S. Lee and D. Wool and S. Kim. "Design and Simulation of All-Optical AND Gate using XGM in Semiconductor Optical Amplifiers without Input Additional Beam". In: NUSOD, no. WA5, September 2006.
- [1324] E. Kehayas and K. Vyrsoinos and L. Stampoulidis and K. Christodoulopoulos and K. Vlachos and H. Avramopoulos. "ARTEMIS: 40-Gb/s All-Optical Self-Routing Node and Network Architecture Employing Asynchronous Bit and Packet-Level Optical Signal Processing". In: Journal of Lightwave Technology, vol. 24, pp. 2967-2977, August 2006.
- [1325] W. D'Oosterlinck and G. Morthier and R. Baets and T. Erneux. "Optical Bistability in a Traveling-Wave SOA Connected to a DFB Laser Diode: Theory and Experiment". In: IEEE Journal of Quantum Electronics, vol. 42, pp. 739 - 746, August 2006.
- [1326] J. Comellas and J.M. Gene and J. Prat. "Proposal and Performance Evaluation of a Heterodyne 8-PolSK Optical Transmission System". In: Journal of Optical Communications, vol. 27, pp. 219 - 222, August 2006.
- [1327] I. B. Djordjevic and S. Sankaranarayanan and S.K. Chilappagari and B. Vasic. "Low-Density Parity-Check Codes for 40-Gb/s Optical Transmission Systems". In: Journal of Selected Topics in Quantum Electronics, vol. 12, pp. 555 - 562, July 2006.
- [1328] M. Aoudeh and J. C. Cartledge. "Impact of Residual Dispersion and ASE Noise on the Performance Optimization of All-Optical Regenerators Utilizing Self-Phase Modulation in a Highly Nonlinear Fiber". In: Journal of Selected Topics in Quantum Electronics, vol. 12, pp. 717 - 725, July 2006.
- [1329] F. Zhang and C. A. Bunge and K. Petermann and Andre Richter. "Optimum dispersion mapping of single-channel 40 Gbit/s return-to-zero differential phase-shift keying transmission systems". In: Optics Express, vol. 14, pp. 6613-6618, July 2006.
- [1330] S. Aleksic and G. Ribnicsek. "Balanced Optical Phase-Locked Loop Based on Four-Wave Mixing in Semiconductor Optical Amplifiers". In: NOC - European Conference on Networks and Optical Communications, pp. 346-351, July 2006.
- [1331] H. Louchet and A. Richter and I. Koltchanov and J. Farina. "Design challenges for broadband access systems". In: NOC - European Conference on Networks and Optical Communications, pp. 436-441, July 2006.

- [1332] L. Du and A. Lowery and J. Armstrong. "WDM Channel Spacing in Ultra Long Haul optical OFDM Systems". In: ACOFT/AOS, no. 114 Mon, pp. 7-9, July 2006.
- [1333] D. K. C. Chan and S.D. Dods and Y.J. Wen. "The optimisation of the AWG filtering of 40 Gbit/s VSB-RZ for transmission through legacy SMF links". In: ACOFT/AOS, no. 84 TUEP, pp. 54-56, July 2006.
- [1334] H. Le Minh and Z. Ghassemlooy and W. P. Ng and M. F. Chiang. "All-Optical Packet Router Based on Multi-Wavelength PPM Header Processing". In: NOC - European Conference on Networks and Optical Communications, pp. 360-367, July 2006.
- [1335] A. Lowery and J. Armstrong. "Comparison of Power-Efficient Optical Orthogonal Frequency Division Multiplexing Transmission Methods". In: ACOFT/AOS, no. 58 Mon, pp. 1-3, July 2006.
- [1336] J.K. Fischer and C.-A. Bunge and K. Jamshidi and H. Louchet and K. Petermann. "Nonlinear diffusion bandwidth and equivalent single-span model: Simple tools for the optimization of dispersion maps". In: NOC - European Conference on Networks and Optical Communications, pp. 97 - 104, July 2006.
- [1337] X. Yi and William Shieh and V. Tran. "Cascadability Study for Optical Label Swapping Using Synchronous Phase Modulation". In: IEEE Photonics Technology Letters, vol. 18, pp. 1445-1447, July 2006.
- [1338] E. H. Salas and G. Zarris and M. J. O'Mahony and D. Simeonidou. "A Novel Variable Optical-Packet-Buffering Architecture". In: NOC - European Conference on Networks and Optical Communications, pp. 322-326, July 2006.
- [1339] M. Premaratne and A. J. Lowery. "Semiclassical Analysis of the Impact of Noise in SOA-Based Optical Pulse Delay Discriminator". In: Journal of Selected Topics in Quantum Electronics, vol. 12, pp. 708-716, July 2006.
- [1340] Y. Shachaf and P. Kourtessis and J. M. Senior. "Multi-PON access/metro network using a coarse-WDM AWG router". In: NOC - European Conference on Networks and Optical Communications, pp. 308 - 313, July 2006.
- [1341] A. Richter. "Overcoming Challenges in Modeling Optical Components and Systems". In: ACOFT/AOS, no. Invited_Richter, July 2006.
- [1342] A. M. J. Koonen and X. Li and J. Zheng and H. P. A. Van den Boom. "High Capacity Data Transport over Plastic Optical Fibre links Using Quadrature Modulation". In: IEE Conference on Access Technologies (ICAT), pp. 69-72, June 2006.
- [1343] F. C. G. Gunning and T. Healy and A. D. Ellis. "Dispersion Tolerance of Coherent WDM". In: IEEE Photonics Technology Letters, vol. 18, pp. 1338 - 1340, June 2006.
- [1344] R. Maher and P. Anandarajah. "Generation and Characterisation of 40 GHz Picosecond Optical Pulses Generated Using an EAM". In: ICTON, no. Tu.P.32, pp. 201-204, June 2006.
- [1345] J. D. Farina and A. Richter and H. Louchet and I. Koltchanov. "Efficient Design of Optical Access Systems". In: IEE Conference on Access Technologies (ICAT), pp. 65-68, June 2006.
- [1346] B. Cuenot and A. D. Ellis and D. J. Richardson. "Optical Regeneration Using Self-Phase Modulation and Quasi-Continuous Filtering". In: IEEE Photonics Technology Letters, vol. 18, pp. 1350 - 1352, June 2006.
- [1347] Y. Shachaf and P. Kourtessis and J. M. Senior. "Multiple - PON Access Network Architecture". In: IEE Conference on Access Technologies (ICAT), pp. 53-55, June 2006.
- [1348] A. Garcia-Perez and J. A. Andrade-Lucio and O. G. Ibarra-Manzano and E. Alvarado-Mendez and M. Trejo-Duran and H. Gutierrez-Martin. "Efficient Modulation Formats for High Bit-Rate Fiber Transmission". In: Acta Universitaria, vol. 16, pp. 17-26, May 2006.
- [1349] F. He and J.H.V. Price and D.J. Richardson. "Optimisation of short pulse multi-stage Yb fiber amplifier systems using commercial gain-modelling software". In: CLEO/QELS, no. CThR6, May 2006.

- [1350] M. Forzati and A. Berntson and J. Martensson and R. J. Davies. "Performance Analysis of Single-MZM APRZ Transmitters". In: Journal of Lightwave Technology, vol. 24, pp. 2006-2014, May 2006.
- [1351] Tae-Sik Cho and Kiseon Kim. "Effect of Third-Order Intermodulation on Radio-Over-Fiber Systems by a Dual-Electrode Mach-Zehnder Modulator With ODSB and OSSB Signals". In: Journal of Lightwave Technology, vol. 24, pp. 2052 - 2058, May 2006.
- [1352] Tae-Sik Cho and Kiseon Kim. "Optimization of Radio-On-Fiber Systems Employing ODSB Signals by Utilizing a Dual-Electrode Mach-Zehnder Modulator Against IM3". In: IEEE Photonics Technology Letters, vol. 18, pp. 1076 - 1078, May 2006.
- [1353] E. Moll and K.A. Williams and R.V. Penty and I.H. White. "Optimal design parameters research for novel monolithically integrated non-linear all-optical loop mirror for signal regeneration". In: Integrated optics, silicon photonics, and photonic integrated circuits. Conference , FRANCE, vol. 6183, no. 618318, pp. 618318.1-618318.11, April 2006.
- [1354] M. Attygalle and C. Lim and A. Nirmalathas. "Extending Optical Transmission Distance in Fiber Wireless Links Using Passive Filtering in Conjunction With Optimized Modulation". In: Journal of Lightwave Technology, vol. 24, pp. 1703 - 1709, April 2006.
- [1355] R. N. Nogueira and A. L. J. Teixeira and J. L. Pinto and J. F. Rocha. "Polarization-Assisted OCDMA Using Fiber Bragg Gratings Written in Highly Birefringent Fibers". In: IEEE Photonics Technology Letters, vol. 18, pp. 841-843, April 2006.
- [1356] A. J. Lowery and J. Armstrong. "Orthogonal-frequency-division multiplexing for dispersion compensation of long-haul optical systems". In: Optics Express, vol. 14, pp. 2079-2084, March 2006.
- [1357] A. J. Lowery and L. Du and J. Armstrong. "Orthogonal Frequency Division Multiplexing for Adaptive Dispersion Compensation in Long Haul WDM Systems". In: OFC/NFOEC, no. PDP39, March 2006.
- [1358] M. Seimetz. "Performance of Coherent Optical Square-16-QAM-Systems based on IQ-Transmitters and Homodyne Receivers with Digital Phase Estimation". In: OFC/NFOEC, no. NWA4, March 2006.
- [1359] M. Seimetz and C.-M. Weinert. "Options, Feasibility, and Availability of 2 x 4 90deg Hybrids for Coherent Optical Systems". In: Journal of Lightwave Technology, vol. 24, pp. 1317-1322, March 2006.
- [1360] A.D. Ellis and M.E. McCarthy. "Receiver-side electronic dispersion compensation using passive optical field detection for low cost 10Gbit/s 600 km reach applications". In: OFC/NFOEC, no. OTuE4, March 2006.
- [1361] N. Chi and L. Xu and J. Zhang and P. Holm-Nielsen and C. Peucheret and S. Yu and P. Jeppesen. "Improve the Performance of Orthogonal ASK/DPSK Optical Label Switching by DC-Balanced Line Encoding". In: Journal of Lightwave Technology, vol. 24, no. 3, pp. 1082-1092, March 2006.
- [1362] T. Healy and F.C.Garcia Gunning and A.D. Ellis. "Phase Stabilisation of Coherent WDM Modulator Array". In: OFC/NFOEC, no. OTuI5, March 2006.
- [1363] I. Koltchanov and O. Minchenkova and A. Richter. "Efficient Design and Modeling of Doped-Fiber Amplifiers and Lasers". In: OFC/NFOEC, no. JThB82, March 2006.
- [1364] A. Afonso and J. L. de Bougrenet de la Tocnaye and M. Barge. "Dynamic Gain and Channel Equalizers or Wavelength Blocker Using Free Space: Common Elements and Differences". In: Journal of Lightwave Technology, vol. 24, pp. 1534-1542, March 2006.
- [1365] P. N. Ji and A. Dogariu and L. Xu and L. Zong and T. Wang and O. Matsuda and Y. Abe. "Optical Tunable Asymmetric Interleaver". In: OFC/NFOEC, no. OTuM7, March 2006.
- [1366] S. D. Dods and T. B. Anderson. "Optical Performance Monitoring Technique Using Delay Tap Asynchronous Waveform Sampling". In: OFC/NFOEC, no. OThP5, March 2006.

- [1367] L. Xu and T. Wang and A. Chowdhury and J. Yu and G.-k. Chang and K. Fukuchi and T. Ito. "Spectral Efficient Transmission of 40Gbps per Channel over 50GHz Spaced DWDM Systems using Optical Carrier Suppression, Separation and Optical Duobinary Modulation". In: OFC/NFOEC, no. NTuC2, March 2006.
- [1368] I. B. Djordjevic and S. K. Chilappagari and B. Vasic. "Suppression of Intrachannel Nonlinear Effects Using Pseudoternary Constrained Codes". In: Journal of Lightwave Technology, vol. 24, pp. 769-774, February 2006.
- [1369] X. Chen and B. Zhou and H. Zhang and X. Ma and X. Zheng and Y. Guo. "Improvement of Dispersion Tolerance Using Phase-Modulated NRZ Signals in 40-Gb/s Transmission Systems". In: IEEE Photonics Technology Letters, vol. 18, pp. 37 - 39, January 2006.
- [1370] B. Mocan and M. S. Dinleyici. "A novel all-optical routing architecture for optical packet switched networks". In: Photonic Network Communications, vol. 11, pp. 77 - 86, January 2006.

2005

- [1371] A. J. Lowery and J. Armstrong. "10 Gbit/s multimode fiber link using power efficient orthogonal-frequency-division multiplexing". In: *Optics Express*, vol. 13, pp. 10003-10009, December 2005.
- [1372] C.-H. Lin and J. Wu and H.-W. Tsao and C.-L. Yang. "Noncoherent Spatial/Spectral Optical CDMA System With Two-Dimensional Perfect Difference Codes". In: *Journal of Lightwave Technology*, vol. 23, pp. 3966-3980, December 2005.
- [1373] M. J. N. Lima and A. L. J. Teixeira and J. R.erreira da Rocha and P. S. B. Andre. "Comparison of the Crosstalk Characteristics of Optical Add/Drop Multiplexers Based on Mach-Zehnder Interferometers with FBGs". In: *Journal of Optical Communications*, vol. 26, pp. 287 - 291, December 2005.
- [1374] R. Rotman and O. Raz and M. Tur. "Analysis of a True Time Delay Photonic Beamformer for Transmission of a Linear Frequency-Modulated Waveform". In: *Journal of Lightwave Technology*, vol. 23, pp. 4026-4036, December 2005.
- [1375] W.-R. Peng and P.-C. Peng and Y.-T. Hsueh and K.-M. Feng and S. Chi. "Performance Comparisons of External Modulated Hybrid Analog-Digital Signals in Electrical and Optical Domains". In: *IEEE Photonics Technology Letters*, vol. 17, pp. 2496-2498, November 2005.
- [1376] A. Richter and I. Koltchanov and K. Kuzmin and D. Rukhlenko. "Bit-Error Rate Estimation for Applications using 40 Gbit/s and Higher". In: *WOTE (Workshop on Optical Transmission and Equalization)*, no. B3, pp. 23-24, November 2005.
- [1377] E. A. Patent and J. J. G. M. van der Tol and J. J. M. Binsma and Y. S. Oei and E. A. J. M. Bente and M. K. Smit. "Self-Switching in Mach-Zehnder Interferometers With SOA Phase Shifters". In: *IEEE Photonics Technology Letters*, vol. 17, pp. 2301-2303, November 2005.
- [1378] I. B. Djordjevic and B. Vasic and M. Ivkovic and I. Gabitov. "Achievable Information Rates for High-Speed Long-Haul Optical Transmission". In: *Journal of Lightwave Technology*, vol. 23, pp. 769-774, November 2005.
- [1379] M. Seimetz. "Coherent Systems using Multi-Level Modulation Formats and Electronic Distortion Equalisation". In: *WOTE (Workshop on Optical Transmission and Equalization)*, no. B1, pp. 19-20, November 2005.
- [1380] K. T. Tsai and W. I. Way. "Chromatic-Dispersion Monitoring Using an Optical Delay-and-Add Filter". In: *Journal of Lightwave Technology*, vol. 23, pp. 3737-3747, November 2005.
- [1381] J. Fischer and K. Petermann. "PMD and Chromatic Dispersion in (APol-)DPSK Transmission Systems". In: *WOTE (Workshop on Optical Transmission and Equalization)*, no. A3, pp. 9-10, November 2005.
- [1382] J. Yu. "Spectral Efficient DWDM Packet Generation and Transmission". In: *WOTE (Workshop on Optical Transmission and Equalization)*, no. D1, pp. 47-48, November 2005.
- [1383] A. Tan and L. Dupont and M. Gadonna and I. Joindot. "Comparison of OSNR Penalties induced by First and Second-Order PMD between NRZ and RZ Systems at 40 Gbit/s". In: *STREON (Simulation Tools for Research and Education in Optical Networks)*, no. 02_2, October 2005.
- [1384] W.-R. Peng and Y.-C. Lu and J. Chen and S. Chi. "Encoding ASK Labeled CSRZ-DPSK Payload by Using Only One Dual-Drive Mach-Zehnder Modulator With Enhanced Label Performance". In: *IEEE Photonics Technology Letters*, vol. 17, pp. 2227-2229, October 2005.

- [1385] F. Ramos and E. Kehayas and J. M. Martinez and R. Clavero and J. Marti and L. Stampoulidis and D. Tsiokos and H. Avramopoulos and J. Zhang and P. V. Holm-Nielsen and N. Chi and P. Jeppesen and N. Yan and I. Tafur Monroy and A. M. J. Koonen and M. T. Hill and Y. Liu and H. J. S. Dorren and R. Van Caenegem and D. Colle and M. Pickavet and B. Riposati. "IST-LASAGNE: Towards All-Optical Label Swapping Employing Optical Logic Gates and Optical Flip-Flops". In: Journal of Lightwave Technology, vol. 23, pp. 2993-3011, October 2005.
- [1386] I. Joindot. "Simulation Tools for Research and Education in Optical Networks". In: STREON (Simulation Tools for Research and Education in Optical Networks), no. 02_1, October 2005.
- [1387] A.J. Lowery and M. Premaratne. "Programmed Wavelength-Hopping Semiconductor Laser". In: LEOS Annual Meeting, no. ThK6, pp. 796 - 797, October 2005.
- [1388] A.J. Lowery and M. Premaratne. "Active Photonic Circuits and Biophotonics at Monash University, Australia". In: LEOS Annual Meeting, no. ThK6, pp. 17 - 18, October 2005.
- [1389] J. Jauffrit and D. Betoule and B. Fracasso and M. Morvan. "Performance evaluation of a WDM metropolitan network". In: STREON (Simulation Tools for Research and Education in Optical Networks), no. 04_4S, October 2005.
- [1390] M. Khanal and J.C. Chang and R.S. Tucker. "Optimum Operating Conditions of a WDM Passive Optical Network with Selective Video Broadcasting Capability through a Single Modulator". In: LEOS Annual Meeting, no. TuG2, pp. 220 - 221, October 2005.
- [1391] A. Afonso and J.L. de Bougrenet de la Tocnaye and M. Barge. "Wavelength Blocker and DCE design and modeling". In: STREON (Simulation Tools for Research and Education in Optical Networks), no. 04_2, October 2005.
- [1392] N. Genay and P. Chanclou. "Effect of backscattering and backreflections on upstream remote modulation in a bidirectional transmission link for WDM-PON applications". In: STREON (Simulation Tools for Research and Education in Optical Networks), no. 03_1, October 2005.
- [1393] A. Clarke and M. Rensing and P. Anandarajah and L.P. Barry and J.D. Harvey and D. Reid and G. Edvell and C. Guignard. "Pulse Source for 80 Gb/s Systems using a Gain-Switched Laser Diode followed by a Nonlinearly Chirped Grating". In: LEOS Annual Meeting, no. ThBB4, pp. 973 - 974, October 2005.
- [1394] H. Le Bras and M. Moignard. "Simulation of optical path degradations for Radio over Fibre link". In: STREON (Simulation Tools for Research and Education in Optical Networks), no. 03_5, October 2005.
- [1395] H. Louchet and A. Hodzic and K. Petermann and A. Robinson and R. Epworth. "Simple Criterion for the Characterization of Nonlinear Impairments in Dispersion-Managed Optical Transmission Systems". In: IEEE Photonics Technology Letters, vol. 17, pp. 2089-2091, October 2005.
- [1396] W. Rong and L. Dupont and A. Tan. "DOP and OSNR Penalty in First and Second-order PMD Compensation". In: STREON (Simulation Tools for Research and Education in Optical Networks), no. 02_4, October 2005.
- [1397] X. Tang and Z. Wu. "16x40 Gb/s Transmission Using Optical Phase Conjugation". In: STREON (Simulation Tools for Research and Education in Optical Networks), no. 02_3, October 2005.
- [1398] M. Premaratne and A. J. Lowery. "Analytical Characterization of SOA-Based Optical Pulse Delay Discriminator". In: Journal of Lightwave Technology, vol. 23, pp. 2778-2787, September 2005.
- [1399] M. Forzati and A. Berntson and J. Martensson and R. J. Davies. "Performance analysis of single-MZM APRZ transmitter". In: ECOC, no. We4.P.081, September 2005.
- [1400] K. Vyrsoinos and K. Christodouloupolos and E. Kehayas and L. Stampoulidis and K. Vlachos and E. A. Varvarigos and H. Avramopoulos. "ARTEMIS: A New Architecture for All-Optical Asynchronous Self-Routing Network with Efficient Contention Protection and QoS Differentiation". In: ECOC, no. We4.P.083, September 2005.

- [1401] J.P.A. van Berkel and J.J. Vegas Olmos and I. Tafur Monroy and A.M.J. Koonen. "Influence of Non-optimal Filtering on FSK/IM Modulated Signals". In: ECOC, no. Th3.4.5, September 2005.
- [1402] A. Martinez and D. Pastor and J. Capmany and B. Ortega and P-Y. Fongjallaz and M. Popov and T. Berceli and T. Banky. "Experimental demonstration of subcarrier multiplexed optical Label Swapping featuring 20GB/s Payload speed and 622Mb/s header conveyed @18.3GHz". In: ECOC, no. Th3.4.3, September 2005.
- [1403] J. K. Fischer and S. Randel and A. Denzin and K. Petermann. "Optimum Fibre Dispersion for 40 Gbit/s DPSK Transmission". In: ECOC, no. Th1.2.5, September 2005.
- [1404] T.R. Clark and M. L. Dennis and R. M. Sova. "Digital signal processing assisted coherent optical receiver for high dynamic range fiber optic networks". In: IEEE Conference on Avionics Fiber-Optics and Photonics (AVFOP), pp. 69 - 70, September 2005.
- [1405] H. Louchet and K. Petermann and A. Robinson and R. Epworth. "Introduction to the Concept of Nonlinear Diffusion Bandwidth". In: ECOC, no. We4.P.011, September 2005.
- [1406] P. Kulkarni and A. Tzanakaki and C. Mas Machuka and I. Tomkos. "Benefits of Q-factor based Routing in WDM Metro Networks". In: ECOC, no. Th3.5.7, September 2005.
- [1407] D. Z. Chen and T. J. Xia. "Next-Generation Optical Transmission Fibers". In: MCI Whitepaper WP10602 (<http://www.verizonbusiness.com/resources/whitepapers/pdf/NxtGenOptTran.pdf>), August 2005.
- [1408] A. Lowery. "Performance Predictions and Topology Improvements for Optical Serrrodyne Comb Generators". In: Journal of Lightwave Technology, vol. 23, pp. 2371-2379, August 2005.
- [1409] W. A. Vanderbauwhede and H. Novella. "A Multiexit Recirculating Optical Packet Buffer". In: IEEE Photonics Technology Letters, vol. 17, pp. 1749-1751, August 2005.
- [1410] J.P.A. van Berkel and J.J. Vegas Olmos and I. Tafur Monroy and A.M.J. Koonen. "Effect of non-optimal filtering on the performance of FSK/IM transmission schemes". In: NOC - European Conference on Networks and Optical Communications, July 2005.
- [1411] I. Joindot. "Dispersion Map Optimization in Hybrid Raman/Erbium-Doped Fiber Amplifier-Based 40-Gb/s Link". In: IEEE Photonics Technology Letters, vol. 17, pp. 1555-1557, July 2005.
- [1412] I. Tsirilakis and C. Mas and I. Tomkos. "Cost comparison of IP/WDM vs. IP/OTN for European backbone networks". In: ICTON, vol. 2, pp. 46 - 49, July 2005.
- [1413] A.M. Junior and H.J. Kalinowski and A.A.P. Pohl. "Design and simulation of an in-line optical gain equalizer for application in WDM systems". In: ICTON, vol. 2, pp. 221 - 224, July 2005.
- [1414] E. H. Salas and G. Zarris and M. O'Mahony. "All-Optical Buffering and Wavelength Conversion/Regeneration based on a Symmetric Mach-Zehnder Interferometer". In: NOC - European Conference on Networks and Optical Communications, pp. 509-514, July 2005.
- [1415] C. Yu and L. Christen and T. Luo and Y. Wang and Z. Pan and L.-S. Yan and A. E. Willner. "All-Optical XOR Gate Using Polarization Rotation in Single Highly Nonlinear Fiber". In: IEEE Photonics Technology Letters, vol. 17, pp. 1232-1234, June 2005.
- [1416] A. J. Lowery and M. Premaratne. "Design and simulation of a simple laser rangefinder using a semiconductor optical amplifier-detector". In: Optics Express, vol. 13, pp. 3647-3652, May 2005.
- [1417] A. Richter and I. Koltchanov. "Photonic Design Automation to Help Design Future Optical Networks". In: COIN, no. SC-00, May 2005.
- [1418] S. D. Dods and D. F. Hewitt and P. M. Farrell and K. Hinton. "Optical performance monitoring with tunable narrowband optical filtering". In: Optics Express, vol. 13, pp. 8927-8932, May 2005.

- [1419] C.-H. Lin and J. Wu and H.-W. Tsao and C.-L. Yang. "Spectral Amplitude-Coding Optical CDMA System Using Mach-Zehnder Interferometers". In: *Journal of Lightwave Technology*, vol. 23, pp. 1543-1555, April 2005.
- [1420] R. Clavero and F. Ramos and J. M. Martinez and J. Marti. "All-Optical Flip-Flop Based on a Single SOA-MZI". In: *IEEE Photonics Technology Letters*, vol. 17, pp. 843-845, April 2005.
- [1421] A. D. Ellis and F. G. Gunning. "Achievement of 1 bit/s /HZ Information Spectral Density Using Coherent WDM". In: *OFC/NFOEC*, no. OThR4, March 2005.
- [1422] I. Koltchanov and A. Richter and E. Myslivets and C. Kazmierski. "Complete Time and Frequency-dependent Modeling of Electro-Absorption Modulators". In: *OFC/NFOEC*, no. OME42, March 2005.
- [1423] A. Richter and I. Koltchanov and K. Kuzmin and E. Myslivets and R. Freund. "Issues on Bit-Error Rate Estimation for Fiber-Optic Communication Systems". In: *OFC/NFOEC*, no. NTuH3, March 2005.
- [1424] A. Richter and I. Koltchanov and E. Myslivets and A. Khilo and G. Shkred and R. Freund. "Optimization of Multi-Pump Raman Amplifiers". In: *OFC/NFOEC*, no. NTuB4, March 2005.
- [1425] E. N. Lallas and N. Skarmoutsos and D. Syridis. "Coherent Encoding of Optical FSK Header of All Optical Label Swapping Systems". In: *Journal of Lightwave Technology*, vol. 23, pp. 1199-1209, March 2005.
- [1426] M. Bakaul and A. Nirmalathas and C. Lim. "Multifunctional WDM Optical Interface for Millimeter-Wave Fiber-Radio Antenna Base Station". In: *Journal of Lightwave Technology*, vol. 23, pp. 1210-1218, March 2005.
- [1427] H. Zeng and Ch. Huang and A. Vukovic and J. M. Savoie. "Transport Performance of an All-Optical Metro WDM Network Based on an All-Optical Switches". In: *OFC/NFOEC*, no. NTuE3, March 2005.
- [1428] C. E. Perez and M. Morvan and M. Gadonna and J. L. De Bougrenet de la Tocnaye. "Ultralinear Transmission Modulation: A new Amplitude Modulation Coding for High Efficiency Fiber-Optic Transmissions". In: *IEEE Photonics Technology Letters*, vol. 17, pp. 708-710, March 2005.
- [1429] I. B. Djordjevic and B. V. Vasic. "A Ternary Modulation Code for Suppression of Intrachannel Nonlinear Effects in High-Speed Optical Transmission". In: *OFC/NFOEC*, no. OThW2, March 2005.
- [1430] M. Forzati and A. Berntson and A. Djupsjobacka and J. Li and St. Melin and H. Carlden. "40-Gb/s field transmission through 540 km SSMF using the APRZ modulation format". In: *OFC/NFOEC*, no. OFN1, March 2005.
- [1431] R. Llorente and J. H. Lee and R. Clavero and M. Ibsen and J. Marti. "Orthogonal Wavelength-Division-Multiplexing Technique Feasibility Evaluation". In: *Journal of Lightwave Technology*, vol. 23, pp. 1145-1151, March 2005.
- [1432] E. Schulze and A. Warnke and F. Raub. "40 Gb/s WDM-Transmission with EDFAs in Comparison to Raman Amplified Transmission with Raman Fiber Lasers as First-Order and Second-Order Pump". In: *OFC/NFOEC*, no. OThF2, March 2005.
- [1433] W. D'Oosterlinck and G. Morthier and M. K. Smit and R. Baets. "Very Steep Optical Thresholding Characteristic Using a DFB Laser Diode and an SOA in an Optical Feedback Scheme". In: *IEEE Photonics Technology Letters*, vol. 17, pp. 642-644, March 2005.
- [1434] H. Buchta and E. Patzak. "Impact of Modulation Formats and SOA Chirp on the Throughput of SOA Based OBS Nodes". In: *OFC/NFOEC*, no. OWC7, March 2005.
- [1435] R. Freund and L. Molle and H.-J. Thiele. "System Margin and Parameter Tolerances of Optical Transmission Sections in Metro-Networks for 40 Gbit/s-NRZ-ASK Transmission". In: *OFC/NFOEC*, no. NThB1, March 2005.
- [1436] S. D. Dods and D. F. Hewitt and P. M. Farrell and K. Hinton. "A Novel Broadband Asynchronous Histogram Technique for Optical Performance Monitoring". In: *OFC/NFOEC*, no. OThH2, March 2005.

- [1437] A. D. Ellis and F. C. Garcia Gunning. "Spectral Density Enhancement Using Coherent WDM". In: IEEE Photonics Technology Letters, vol. 17, pp. 504-506, February 2005.
- [1438] C.K. Madsen. "A Novel Optical Vector Spectral Analysis Technique Employing a Limited-Bandwidth Detector". In: EURASIP Journal on Applied Signal Processing, vol. 10, pp. 1566-1573, February 2005.
- [1439] M. Premaratne and E. Premaratne and A. J. Lowery. "The photon transport equation for turbid biological media with spatially varying isotropic refractive index". In: Optics Express, vol. 13, pp. 389-399, January 2005.
- [1440] I. Zacharopoulos and A. Tzanakaki and D. Parcharidou and I. Tomkos. "Optimization Study of Advanced Modulation Formats for 10Gb/s Metropolitan Networks". In: Journal of Lightwave Technology, vol. 23, pp. 321-329, January 2005.
- [1441] A. J. Ward and D. J. Robbins and G. Busico and E. Barton and L. Ponnampallam and J. P. Duck and N. D. Whitbread and P. J. Williams and D. C. J. Reid and A. C. Carter and M. J. Wale. "Widely Tunable Ds-DBR Laser with Monolithically Integrated SOA: Design and Performance". In: Journal of Selected Topics in Quantum Electronics, vol. 11, pp. 149-156, January 2005.
- [1442] A. J. Lowery and M. Premaratne. "Reduced component count optical delay discriminator using a semiconductor optical amplifier-detector". In: Optics Express, vol. 13, pp. 290-295, January 2005.
- [1443] Joachim Piprek. "Optoelectronic Devices: Advanced Simulation and Analysis". In: OFC/NFOEC, no. OTuH2, January 2005.
- [1444] M. Attygalle and C. Lim and A. Nirmalathas. "Dispersion-Tolerant Multiple WDM Channel Millimeter-Wave Signal Generation Using a Single Monolithic Mode-Locked Semiconductor Laser". In: Journal of Lightwave Technology, vol. 23, pp. 295-303, January 2005.
- [1445] M. Attygalle and C. Lim and G. J. Pendock and A. Nirmalathas and G. Edvell. "Transmission Improvement in Fiber Wireless Links Using Fiber Bragg Gratings". In: IEEE Photonics Technology Letters, vol. 17, pp. 190-192, January 2005.
- [1446] H. Louchet and A. Hodzic and K. Petermann and A. Robinson and R. Epworth. "Analytical Model for the Design of Multispan DWDM Transmission Systems". In: IEEE Photonics Technology Letters, vol. 17, pp. 247-249, January 2005.
- [1447] A. V. Tran and C.-J. Chae and R. S. Tucker and Y. J. Wen. "EDFA Transient Control Based on Envelope Detection for Optical Burst Switched Networks". In: IEEE Photonics Technology Letters, vol. 17, pp. 226-228, January 2005.

2004

- [1448] J.P.A. van Berkel and J.J. Vegas Olmos and I. Tafur Monroy and A.M.J. Koonen. "Influence of laser wavelength detuning and optical filtering on the performance of FSK/IM transmission schemes". In: Symposium IEEE/LEOS Benelux Chapter, pp. 191-194, December 2004.
- [1449] B.-H. Choi and M. Attygalle and Y. J. Wen and S. D. Dods. "Dispersion map optimisation and dispersion slope mismatch effects for 40 channel x 10 Gbit/s transmission over 3000 km using standard SMF and EDFA amplification". In: Optics Communications, vol. 242, pp. 525-532, December 2004.
- [1450] W. Zhou and S. Shi and L. Luo and N. Zhao and G. Wang. "Performance comparison for NRZ, RZ and CSRZ modulation formats in ultra-long haul DWDM system". In: APOC, vol. 5625-167, November 2004.
- [1451] J. Huang and J. Wu. "An enhanced inheritance algorithm for optimization of multiwavelength fiber Raman amplifier". In: APOC, vol. 5623, pp. 727-735, November 2004.
- [1452] D. Breuer and M. Schneider and S. Vorbeck and R. Freund and A. Richter. "Design analysis of upgrade strategies from single to double and triple-wavelength-band WDM transmission". In: APOC, vol. 5625, pp. 601-613, November 2004.
- [1453] J. Yu and G.-K. Chang and A. Chowdhury and J. L. Long. "Spectral Efficient DWDM Optical Label/Payload Generation and Transport for Next-Generation Internet". In: Journal of Lightwave Technology, vol. 22, pp. 2469-2482, November 2004.
- [1454] Y. J. Wen and A. Nirmalathas and D.-S. Lee. "RZ/CSRZ-DPSK and Chirped NRZ Signal Generation Using a Single-Stage Dual-Electrode Mach-Zehnder Modulator". In: IEEE Photonics Technology Letters, vol. 16, pp. 2466-2468, November 2004.
- [1455] C. Develder and A. Stavdas and A. Bianco and D. Careglio and H. Lonsethagen and J. P. Fernandez-Palacios Gimenez and R. Van Caenegem and S. Sygletos and F. Neri and J. Sole-Pareta and M. Pickavet and N. Le Sauze and P. Demeester. "Benchmarking and Viability Assessment of Optical Packet Switching for Metro Networks". In: Journal of Lightwave Technology, vol. 22, pp. 2435-2451, November 2004.
- [1456] A. Richter and I. Koltchanov and A. Lowery. "Photonic design automation of optical communication systems". In: APOC, vol. 5625, pp. 316-327, November 2004.
- [1457] R. Freund and L. Molle and N. Hanik and A. Richter. "Design issues of 40-Gbit/s WDM Systems for Metro and Core Network Application". In: APOC, vol. 5625, pp. 532-543, November 2004.
- [1458] M. Forzati and A. Berntson and J. Martensson. "FWM Suppression Using APRZ With Optimized Phase-Modulation Parameters". In: IEEE Photonics Technology Letters, vol. 16, pp. 2368-2370, October 2004.
- [1459] A. D. McAulay. "Optimizing SOA frequency conversation with discriminant filter". In: Active and Passive Optical Components for WDM Communications IV, no. SPIE 5595-44, October 2004.
- [1460] J. Fatome and S. Pitois and P. Tchofo Dinda and G. Millot and E. Le Rouzic and B Cuenot and E. Pincemin and S. Gosselin. "Effectiveness of Fiber Lines with Symmetric Dispersion Swing for 160-Gb/s Terrestrial transmission Systems". In: IEEE Photonics Technology Letters, vol. 16, pp. 2365-2367, October 2004.
- [1461] R. Freund and L. Molle and N. Hanik and A. Richter. "Design issues of 40 Gb/s WDM-systems for metro and core network application". In: ECOC, no. Tu351, September 2004.
- [1462] H. Bao and Y. J. Wen and H.-F. Liu. "Impact of Saturable Absorption of Performance of Optical Clock Recovering Using a Mode-Locked Multisection Semiconductor Laser". In: IEEE Journal of Quantum Electronics, vol. 40, pp. 1177-1185, September 2004.

- [1463] I. B. Djordjevic and V. S. Rao and B. Vasic. "Suppression of intrachannel nonlinear effects in highspeed optical transmission using modulation codes". In: ECOC, no. We4P081, September 2004.
- [1464] H. Zeng and A. Vukovic and C. Huang and H. Hua and M. Savoie. "Wavelength-routing fault detection in an AON testbed utilizing concatenated pilot tones". In: SPIE Photonics North, September 2004.
- [1465] M. Vervaeke and C. N. Thi and H. Thienpont. "Advanced optical fiber communication simulations in Electrotechnical Engineering education". In: SPIE Photonics North, pp. 768-779, September 2004.
- [1466] R. Clavero and J. M. Martinez and F. Ramos and J. Marti. "All-optical packet routing scheme for optical label-swapping networks". In: Optics Express, vol. 12, pp. 4326-4332, September 2004.
- [1467] D.-S. Lee and M. S. Lee and Y. J. Wen and A. Nirmalathas. "Electrically Band-Limited CSRZ-DPSK Signal With a Simple Transmitter Configuration and Reduced Linear Crosstalk in High Spectral Efficiency DWDM Systems". In: IEEE Photonics Technology Letters, vol. 16, pp. 2135-2137, September 2004.
- [1468] D. Vogiatzis and C. Mas and I. Tomkos. "Impairment Constraint Routing in Metro Optical Networks". In: ECOC, no. We4P134, September 2004.
- [1469] D. Benhaddou and G. Chaudhry and R. Runser. "Design and scalability analysis of a fast-frequency-hopping optical CDMA switch architecture". In: Journal of Optical Networking, vol. 3, no. 9, pp. 694-706, September 2004.
- [1470] A. Klekamp and W. Idler and R. Dischler and J. A. Lazaro. "Reliability of Simulations at 43Gb/s: Comparison with Experiment at 8 Modulation Formats on Fiber Impairments". In: ECOC, no. We4P094, September 2004.
- [1471] J. M. Martinez and R. Clavero and F. Ramos and J. Marti. "All-Optical Header Recognition Scheme for All-Optical Packet Routers in Optical Label-Swapping Networks". In: ECOC, no. We4P129, September 2004.
- [1472] I. B. Djordjevic and J. Rorison and S. Yu. "Modified Duobinary RZ Modulation Format for High-Speed Transmission". In: Journal of Optical Communications, vol. 25, pp. 155-157, August 2004.
- [1473] I. B. Djordjevic and J. Rorison and S. Yu. "Chirped NRZ Modulation Format for High-Speed Transmission". In: Journal of Optical Communications, vol. 25, pp. 158-160, August 2004.
- [1474] I. Tomkos and D. Vogiatzis and C. Mas and I. Zacharopoulos and A. Tzanakaki and E. Varvarigos. "Performance engineering of metropolitan area optical networks through impairment constraint routing". In: IEEE Communications Magazine, vol. 42, pp. 40-47, August 2004.
- [1475] A. D. McAulay. "All-optical SOA latch fail-safe alarm system". In: Photonic Devices and Algorithms for Computing VI, SPIE Conference 5556-7, August 2004.
- [1476] J. Comellas and J. M. Gene and J. Prat. "Quaternary Optical Transmission System Combining Phase and Polarization Shift-Keying". In: IEEE Photonics Technology Letters, vol. 16, pp. 1786-1788, July 2004.
- [1477] S. D. Dods and P. M. Farrell and D. F. Hewitt and K. Hinton. "Optical performance monitoring combining optical signal processing and histogram techniques". In: ACOFT/AOS, July 2004.
- [1478] S. D. Dods and P. M. Farrell and D. F. Hewitt and K. Hinton. "Spectrally resolved performance monitoring using narrow band filters for optical networks". In: OECC/COIN, no. 15C3-6, July 2004.
- [1479] H. Zeng and A. Vukovic and C. Huang and H. Hua and M. Savoie and T. Nguyen. "Optimisation of Physical layer Parameters for an All-Optical Network Testbed". In: 4th IASTED International Conference of Wireless and Optical Communications (WOC'04), pp. 703-708, July 2004.
- [1480] B. S. Gopalakrishnapillai and A. Nirmalathas and C. Lim. "Optical Decoder Based on Parallel Configuration of Fibre Bragg Gratings". In: OECC/COIN, July 2004.

- [1481] W. H. Chen and W. I. Way. "Multichannel Single-Sideband SCM/DWDM Transmission Systems". In: Journal of Lightwave Technology, vol. 22, pp. 1679-1693, July 2004.
- [1482] A. Tzanakaki and I. Zacharopoulos and D. Pacharidaou and I. Tomkos. "Performance Study of Modulation Formats for 10 Gb/s WDM Metropolitan Area Networks,". In: IEEE Photonics Technology Letters, vol. 16, pp. 1769-1771, July 2004.
- [1483] E. Wong and A. Nirmalathas and C. Lim. "Monitoring of Signal-to-Noise Ratio in Optical Communication Links". In: OECC/COIN, no. 13P-63, July 2004.
- [1484] Y. Feng and V. Zarzoso and A. Nandi. "Quality monitoring of WDM channels with blind signal separation methods". In: Journal of Optical Networking, vol. 3, no. 7, pp. 477-489, July 2004.
- [1485] B. Vasic and V. S. Rao and I. B. Djordjevic and R. K. Kostuk and I. Gabitov. "Ghost-Pulse Reduction in 40-Gb/s Systems Using Line Coding". In: IEEE Photonics Technology Letters, vol. 16, pp. 1784-1786, July 2004.
- [1486] D. F. Hewitt and G. Edvell and M. England and Mark Sceats. "10 Gbit/s Vestigial Sideband DWDM Systems using Novel Fibre Bragg Grating Periodic Filters". In: OECC/COIN, no. 13C2-5, July 2004.
- [1487] A. Lowery and D. F. Hewitt. "Improving performance of red shift wavelength converters". In: ACOFT/AOS, July 2004.
- [1488] N. Hanik and A. Ehrhardt and A. Gladisch and C. Peucheret and P. Jeppesen and L. Molle and R. Freund and C. Caspar. "Extension of All-Optical Network-Transparent Domains Based on Normalized Transmission Sections". In: Journal of Lightwave Technology, vol. 22, pp. 1439-1453, June 2004.
- [1489] W. Oosterlinck and G. Morthier. "Ultra-sharp optical decision characteristic from a laser diode integrated with a semiconductor optical amplifier". In: IPR, no. JWB9, pp. 1-3, June 2004.
- [1490] M. Wu and W. I. Way. "Fiber Nonlinearity Limitations in Ultra-Dense WDM Systems". In: Journal of Lightwave Technology, vol. 22, pp. 1483-1498, June 2004.
- [1491] H. Zeng and A. Vukovic and M. Savoie and C. Huang. "Optimisation of All-Optical Network Testbed Regarding NRZ and RZ Modulation". In: IEEE Canadian Conference on Electrical and Computer Engineering 2004, pp. 428-432, May 2004.
- [1492] H. Wei and D. V. Plant. "Simultaneous nonlinearity suppression and wide-band dispersion compensation using optical phase conjugation". In: Optics Express, vol. 12, pp. 1938-1958, May 2004.
- [1493] D. F. Hewitt and Mark Sceats. "A Novel High Speed Optical Access Network using Electrical CDMA [E-CDMA over Optical]". In: Broadband World Forum Seoul (IEC), Session A3 Future Directions of Fibre-to-the-Premises, May 2004.
- [1494] S. Hu and H. Zhang and Y. Guo. "Stiffness analysis in the numerical solution of Raman amplifier propagation equations". In: Optics Express, vol. 12, pp. 1656-1664, April 2004.
- [1495] B. Moeyersoon and G. Morthier and M. Zhao. "Degradation of the Mode Suppression in Single-Mode Laser Diodes Due to Integrated Optical Amplifier". In: IEEE Journal of Quantum Electronics, vol. 40, pp. 241-244, March 2004.
- [1496] P. Harshavardhana. "Network Planning considerations and techniques for Transport Networks". In: OFC, no. WP4, March 2004.
- [1497] C.-L. Yang and S.-L. Lee and H.-W. Tsao and J. Wu. "Simultaneous Channel and OSNR Monitoring Using a Polarization-Selective Modulator and an LED". In: IEEE Photonics Technology Letters, vol. 16, pp. 945-947, March 2004.

- [1498] J. M. Gene and M. Soler and R. I. Killey and J. Prat. "Investigation of 10-Gb/s Optical DQPSK Systems in Presence of Chromatic Dispersion, Fiber Nonlinearities, and Phase Noise". In: IEEE Photonics Technology Letters, vol. 16, pp. 924-926, March 2004.
- [1499] A. Hodzic and T. Kroener and K. Petermann. "Analytical model for the design of PSK based single channel and DWDM transmission systems". In: OFC, no. TuN2, March 2004.
- [1500] H. Buchta and E. Patzak and J. Saniter and F. Raub. "Impact of SOA Gain Saturation and Dynamics on the Throughput of Optical Burst Switching Nodes". In: OFC, no. F03, March 2004.
- [1501] J. Sorio and E. Berglind. "Optical Filter Impact on Eye Opening in Vestigial Sideband Systems". In: Journal of Lightwave Technology, vol. 22, pp. 433-439, February 2004.
- [1502] W. Qiang and Y. Chong-xiu and L. Jian-ping and X. Yu and Y. De-qi. "Numerical Simulation on 8 x 10 Gbit/s all Optical DWDM System". In: Journal of Optical Communications, vol. 25, pp. 43-46, February 2004.
- [1503] T. I. Lakoba. "Effect of a Raman Co-Pump's RIN on the BER for Signal Transmission Using ON-OFF Keying Modulation Format". In: Journal of Lightwave Technology, vol. 22, pp. 382-389, February 2004.
- [1504] Y. J. Wen and A. Nirmalathas. "Impact of optical pulse shape on the performance of Long-Haul high capacity DWDM systems". In: Optics Communications, vol. 234, pp. 217-227, February 2004.
- [1505] J. M. Gene and M. Soler and J. Comellas and J. Prat. "Modified Duobinary Polarisation - Shift Keying Transmission Scheme". In: IEEE Photonics Technology Letters, vol. 16, pp. 311-313, January 2004.

2003

- [1506] P. S. Brito Andre and R. Correia and L. M. Borghesi Jr. and H. J. Kalinowski and J. Lemos Pinto. "Raman Gain characterization in Standard Single Mode Optical Fibres for Optical Simulation Purposes". In: *Optica Applicata*, vol. 33, pp. 559 - 573, December 2003.
- [1507] Y. Cao and M. Y. A. Raja. "Gain-flattened ultra-wideband fiber amplifiers". In: *Optical Engineering*, vol. 42, pp. 3447-3451, December 2003.
- [1508] Y. J. Wen and A. Nirmalathas and D.-S. Lee. "RZ/CSRZ-DPSK and chirped NRZ signal generation with simple configuration". In: *CLEO PR*, pp. 148, December 2003.
- [1509] C. Skoufis and S. Sygletos and N. Leligou and C. Matrakidis and I. Pountourakis and A. Stavdas. "Data-Centric Networking Using Multiwavelength Headers/Labels in Packet-Over-WDM Networks: A Comparative Study". In: *Journal of Lightwave Technology*, vol. 21, pp. 2110-2122, October 2003.
- [1510] C. Lim and A. Nirmalathas and M. Attygalle and D. Novak and R. Waterhouse. "On the Merging of Millimeter-Wave Fiber-Radio Backbone With 25-GHz WDM Ring Networks". In: *Journal of Lightwave Technology*, vol. 21, pp. 2203-2210, October 2003.
- [1511] C. Lim and A. Nirmalathas and D. Novak and R. Waterhouse. "Comparison of Optical Transport Schemes for LMDS with Optical Fiber Backbone". In: *OECC*, pp. 613-614, October 2003.
- [1512] J. Kim and C. Son and Y. Kim and Y. Byun and Y. Jhon and S. Lee and D. Woo and S. Kim and Y. Choi. "All-Optical Signal Processing Using Semiconductor Optical Amplifier Based Logic Gates". In: *NUSOD*, no. WP9, October 2003.
- [1513] D. F. Hewitt. "Design and Performance of Optical Vestigial Sideband Filters in Digital 40 Gbit/s Systems". In: *LEOS Annual Meeting*, vol. 1, no. TuV3, pp. 360-361, October 2003.
- [1514] I. C. Bibac. "Gain flattening filter in the DWDM systems using C-band or L-band optical amplifiers". In: *Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies*, SPIE Publication, pp. 424-429, October 2003.
- [1515] H. C. Bao and Y. J. Wen and H. F. Liu. "Pulsed Multichannel Source Generation for RZ Based WDM Application". In: *IEEE Photonics Technology Letters*, vol. 15, pp. 1449-1451, October 2003.
- [1516] E. Wong and A. Nirmalathas and C. Lim. "Novel technique for soft failure monitoring in optical links". In: *LEOS Annual Meeting*, vol. 2, pp. 963 - 964, October 2003.
- [1517] Y. J. Wen and S. D. Dods. "Optimization of Generation and Detection of WDM Signals with Advanced Modulation Formats". In: *OECC*, pp. 560-561, October 2003.
- [1518] I. Shake and H. Takara. "Chromatic Dispersion Dependence of Asynchronous Amplitude Histogram Evaluation of NRZ Signal". In: *Journal of Lightwave Technology*, vol. 21, pp. 2154-2165, October 2003.
- [1519] A. Lowery. "Free Take-Home Virtual Laboratories using Professional Simulation Software". In: *ETOP*, no. EMD2, October 2003.
- [1520] R. Mohan and H. A. Chan. "10 Gbps x 25 GHz versus 40 Gbps x 100 GHz DWDM Optical Transport: Performance Analysis and Comparison". In: *NFOEC*, no. B94, September 2003.
- [1521] I. Poloyko and A. Khilo and E. Myslivets and V. Volkov and I. Koltchanov and A. Richter and A. Lowery. "Photonic Design Automation of Raman Amplified Systems". In: *NFOEC*, no. P29, September 2003.
- [1522] Y. Akasaka and R. Huang and D. Harris and I. M. White and J. Pan. "Practical Challenges for Deploying Distributed Raman Amplifiers on a Traditional Fieber Network and their itigation". In: *NFOEC*, no. C63, September 2003.

- [1523] B. Konrad and S. Randel and A. Hodzic and K. Petermann. "Optimum fiber chromatic dispersion for Nx40 Gbit/s and Nx160 Gbit/s DWDM systems". In: ECOC, no. We4P120, September 2003.
- [1524] J. Esteve and P. Shen and N. J. Gomes. "Optical Delivery of Millimetre-Wave Reference Signal to Remote Sites". In: London Commission Symposium, pp. 333-336, September 2003.
- [1525] A. Hodzic and M. Winter and B. Konrad and H. Louchet and S. Randel and K. Petermann. "Optimum channel data rate for DWDM transmission systems with the spectral efficiency of 0.8 bit/s/Hz". In: ECOC, no. We4P106, September 2003.
- [1526] E.J.M. Verdurmen and Y. Liu and A.M.J. Koonen and H. de Waardt and I. Tafur Monroy. "Chirp properties of SOA-based wavelength converters for FSK/IM combined modulation format". In: ECOC, no. Tu445, September 2003.
- [1527] S. Randel and B. Konrad and A. Hodzic and K. Petermann. "Comparison of Modulation Formats for DWDM Transmission of 160 Gbit/s OTDM-Channels with Spectral Efficiency of 0.8 bit/s/Hz". In: ECOC, no. Mo426, September 2003.
- [1528] H. Louchet and A. Hodzic and K. Petermann. "Analytical Model for Nonlinear DWDM Transmissions". In: ECOC, no. We4P116, September 2003.
- [1529] H. Louchet and A. Hodzic and K. Petermann. "Analytical Model for the Performance Evaluation of DWDM Transmission Systems". In: IEEE Photonics Technology Letters, vol. 15, pp. 1219-1221, September 2003.
- [1530] A. Klekamp and W. Idler and R. Dischler. "Comparison of FSK by directly modulated DFB laser with DPSK, NRZ and RZ modulation formats at 10 Gb/s". In: ECOC, no. We4P118, September 2003.
- [1531] A. Lowery and K. Kuzmin and V. Volkov and I. Koltchanov. "Efficient Design of Coarse WDM Systems". In: NFOEC, no. P31, September 2003.
- [1532] A.-D. McAulay. "All optical flip flops using directly coupled semiconductor optical amplifiers". In: Annual Meeting of The International Society for Optical Engineering, SPIE, San Diego, August 2003.
- [1533] D.-S. Lee and M. S. Lee and Y. J. Wen and A. Nirmalathas. "Electrically Band-Limited CSRZ Signal With Simple Generation and Large Dispersion Tolerance for 40-Gb/s WDM Transmission Systems". In: IEEE Photonics Technology Letters, vol. 15, pp. 987-989, July 2003.
- [1534] D.-S. Lee and Y. J. Wen and A. Nirmalathas and M. S. Lee. "Impact of Dispersion Map on Performance Comparison of Advanced Modulation Formats in DWDM Systems". In: ACOFT/COIN, July 2003.
- [1535] C. Lim and A. Nirmalathas and D. Novak and R.B. Waterhouse. "Capacity analysis and the merging of a WDM ring fiber-radio backbone incorporating wavelength interleaving with a sectorized antenna interface". In: IEICE Transactions on Electronics, vol. E86-C, pp. 1184-1190, July 2003.
- [1536] C. Lim and A. Nirmalathas and D. Novak and R. Waterhouse. "Towards the Merging of Optical and Wireless Access Technologies - Fiber-Wireless Networks". In: ACOFT/COIN, pp. 679-682, July 2003.
- [1537] D. F. Hewitt. "Design and Performance of Optical Vestigial Sideband (VSB) Filters for 40 Gbit/s Modulated Systems". In: ACOFT/COIN, July 2003.
- [1538] P. S. Brito Andre and H. J. Kalinowski and L. M. Borghesi Jr. and J. Lemos Pinto. "Measurement of Raman Gain Coefficient in Standard Single Mode Optical Fibres for DWDM Photonic Simulation Purposes". In: Proc Proceedings of SPIE , Prague , Czech Republic, vol. 5036, pp. 507 - 511, July 2003.
- [1539] A. Hodzic and M. Winter and B. Konrad and S. Randel and K. Petermann. "Optimized Filtering for 40-Gb/s/Ch-based DWDM Transmission Systems Over Standard Single-Mode Fiber". In: IEEE Photonics Technology Letters, vol. 15, pp. 1002-1004, July 2003.

- [1540] Y. J. Wen and S. Dods and R. S. Tucker. "Power Level Optimization of 40 Gbit/s DWDM Systems with Hybrid Raman/EDFA Amplification". In: ACOFT/COIN, July 2003.
- [1541] Y. J. Wen and H. Bao and S. Dods and R. S. Tucker and T. A. Nirmalathas. "Advanced Modulation Formats for High Capacity DWDM Transmission". In: ACOFT/COIN, July 2003.
- [1542] C. Lim and A. Nirmalathas and D. Novak and R. Waterhouse. "The merging of a WDM fiber-radio backbone with a 25 GHz WDM ring network". In: International Microwave Symposium (IMS), June 2003.
- [1543] Z. Xu and K. Rottwitt and P. Jeppesen. "An investigation of different Raman amplification configurations in 160Gbit/s transmission". In: CLEO Europe, no. CL6-3-FRI, June 2003.
- [1544] B. Cuenot. "Comparison of engineering scenarios for $N \times 160$ Gb/s transmission systems". In: IEEE Photonics Technology Letters, vol. 15, pp. 864-866, June 2003.
- [1545] T.-I. Chae and H. Yoo and S.-S. Min and Y.-H. Won. "Wavelength Mismatch Tolerance in Wavelength-hopping and Time-spreading Optical CDMA Systems". In: IEICE Letters, vol. E86-B, pp. 2015-2018, June 2003.
- [1546] N. G. Tarhuni and T. O. Korhonen and E. Mutafungwa. "Phase Encoded Orthogonal Codes (PE-OOC) for Optical CDMA". In: Finnish Signal Processing Symposium (FINSIG) 2003, no. 1038, May 2003.
- [1547] B. Konrad and A. Hodzic and S. Randel and K. Petermann. "Optimale Faserdispersion in Optischen $N \times 160$ Gb/s WDM-Uebertragungssystemen". In: 4.ITG-Fachtagung "Photonische Netze", pp. 131-136, May 2003.
- [1548] A. Hodzic and M. Winter and B. Konrad and S. Randel and K. Petermann. "Comparison of 10/40/160 Gb/s/ch based DWDM transmission systems with constant system capacity". In: 4.ITG-Fachtagung "Photonische Netze", pp. 119-124, May 2003.
- [1549] M. Yasin Akhtar Raja and Sameer K. Arabasi. "Design and Simulations of a dynamic polarization- mode dispersion compensator for long-haul optical networks". In: Optics Express, vol. 11, pp. 1166-1174, May 2003.
- [1550] E. Mutafungwa and S. J. Halme and K. Kazaura and M. Matsumoto and T. Wakahara. "Hybrid OCDM/WDM for Broadband Wireless Access Networks". In: 5th Topical Symposium on Millimeter Waves (TSMMW 2003), March 2003.
- [1551] A. Stavdas. "Architectures, Technology and Strategies for a Gracefully Evolving Optical Packet Switching Networks". In: SPIE Optical Networks Magazine, vol. 4, pp. 92-107, March 2003.
- [1552] T. Xu and B. Maxum. "Improved transmission performance by hybrid optical amplification in DWDM systems". In: Optical Engineering, vol. 42, no. 3, pp. 882-885, March 2003.
- [1553] A. Stavdas and S. Sygletos and M. O'Mahoney and H. L. Lee and C. Matrakidis and A. Dupas. "IST-DAVID: Concept Presentation and Physical Layer Modeling of a Metropolitan Area Network". In: Journal of Lightwave Technology, vol. 21, pp. 372-383, February 2003.
- [1554] E. Lach and H. Buelow and A. Clausen and B. Sartorius and J.-R. Burie and R. Leppla and E. Le Rouzic and A. Richter and F. Ramos and P. Pecci. "Towards Ultra-high Channel Bitrate". In: CIT COST 266 & IST OPTIMIST workshop in conjunction with ONDM, February 2003.
- [1555] S.-S. Min and H. Yoo and Y. H. Won. "Time-Wavelength Hybrid Optical CDMA System with Tunable Encoder/Decoder using Switch and Fixed Delay-Line". In: Optics Communications, vol. 216, pp. 4-6, February 2003.
- [1556] Ashwin Gumaste and Tony Antony. "DWDM Network Designs and Engineering Solutions". In: ECOC, no. We4P131, January 2003.
- [1557] Gerd Keiser. "Optical Fiber Communications". In: APOC, vol. 5281, pp. 44-51, January 2003.

- [1558] A. Hodzic and B. Konrad and K. Petermann. "Improvement of System Performance in Nx40-Gb/s WDM Transmission Using Alternate Polarizations". In: IEEE Photonics Technology Letters, vol. 15, pp. 153-155, January 2003.
- [1559] M. Tilsch and C.A. Hulse and F.K. Zernik and R.A. Modavis and C.J. Addiego and R.B. Sargent and N.A. O'Brien and H. Pinkney and A.V. Turukhin. "Experimental Demonstration of Thin-Film Dispersion Compensation for 50-Ghz Filters". In: IEEE Photonics Technology Letters, vol. 15, pp. 66-68, January 2003.

2002

- [1560] R. De Salvo and A. G. Wilson and J. Rollman and D. F. Schneider and L. M. Lunardi and S. Lumisch and N. Agrawal and A. H. Steinbach and W. Brau and T. Wall and R.-B. Michael and M. A. Itzler and A. Fejzuli and R. A. Chipman and G. T. Kiehne and K. M. Kissa. "Advanced Components and Sub-System Solutions for 40 Gb/s Transmission". In: *Journal of Lightwave Technology*, vol. 20, pp. 2154-2181, December 2002.
- [1561] T. Hoshida and O. Vassilieva and K. Yamada and S. Choudhary and R. Pecqueur and H. Kuwahara. "Optimal 40 Gb/s Modulation Formats for Spectrally Efficient Long-Haul DWDM Systems". In: *Journal of Lightwave Technology*, vol. 20, pp. 1989-1996, December 2002.
- [1562] E. Verdurmen and F. Huijskens and T. Koonen and H. de Waardt and I. T. Monroy. "Characterization of an All Optical Label Swapping Node for IP over WDM". In: *IEEE LEOS symposium*, pp. 286-289, December 2002.
- [1563] B. Konrad and K. Petermann and J. Berger and R. Ludwig and C. M. Weinert and H. G. Weber and B. Schmauss. "Impact of Fiber Chromatic Dispersion in High-Speed TDM Transmission Systems". In: *Journal of Lightwave Technology*, vol. 20, pp. 2129-2135, December 2002.
- [1564] L. P. Barry and P. Anandarajah and S. Delburgo and R. T. Watts and D. A. Reid and J. Harvey. "Optimization of 40 Gbit/s Transmission Systems using Frequency Resolved Optical Gating Characterization Techniques". In: *LEOS Annual Meeting*, no. MI3, November 2002.
- [1565] Y. J. Wen and S. Dods. "Dispersion map optimisation in WDM transmission systems". In: *LEOS Annual Meeting*, no. Tul2, November 2002.
- [1566] C. Lim and A. Nirmalathas and D. Novak and R. Waterhouse. "The merging of a wavelength interleaved WDM fiber-radio backbone with a standard WDM ring network". In: *First International Conference on Optical Communications and Networks (ICOON)*, pp. 91-94, November 2002.
- [1567] Y. J. Wen and S. Dods. "Launch Power Management for DWDM Transmission Systems Using Two Stage Lumped Amplification". In: *ICOON*, pp. 234-237, November 2002.
- [1568] C. Lim and A. Nirmalathas and D. Novak and R. Waterhouse. "Capacity analysis and optimum channel allocations for a WDM ring fiber-radio backbone incorporating wavelength interleaving with a sectorized antenna interface". In: *International Topical Meeting on Microwave Photonics (MWP)*, pp. 371-374, November 2002.
- [1569] E. N. Lallas and N. Skarmoutsos and D. Syvridis. "An Optical FSK-Based Label Coding Technique for the Realization of the All-Optical Label Swapping". In: *IEEE Photonics Technology Letters*, vol. 14, pp. 1472-1474, October 2002.
- [1570] B. Sartorius and S. Bauer and C. Bornholdt and O. Brox and M. Moehrle and H.-P. Nolting and J. Slovak. "All-Optical Clock Recovery for Signal Processing and Regeneration". In: *IEEE LEOS Newsletter*, vol. 16, pp. 17-19, October 2002.
- [1571] W. Heckel and H.-J. Schmidtke and B.-H. Heppner and U. Peller and E. Leitgeb and J. Horwath. "Novel Characterization and Reliability Method for Erbium-doped Fiber Amplifiers based on the Use of Photonics Transmission Simulation". In: *Reliability of Optical Fiber Components, Devices, Systems, and Networks*, vol. SPIE 4940, pp. 93-100, October 2002.
- [1572] T.-I. Chae and H. Yoo and Y.-H. Won. "Dispersion-insensitive, Frequency-doubled SCM Signal Processing Technique for Optical Label Swapping". In: *APOC*, vol. SPIE 4907, pp. 300-308, October 2002.
- [1573] G. Morthier and B. Moeyersoon. "Intensity Noise and Linewidth of Laser Diodes with Integrated Semiconductor Optical Amplifier". In: *IEEE Photonics Technology Letters*, vol. 14, pp. 1644-1646, October 2002.

- [1574] M. T. Hill and E. Tangdiongga and H. de Waardt and G. D. Khoe and H. J. S. Dorren. "Carrier recovery time in semiconductor optical amplifiers employing a holding beam". In: *Optics Letters*, vol. 27, pp. 1625, September 2002.
- [1575] E. Lallas and N. Skarmoutsos and D. Syvridis. "A new all optical label swapping method based on optical FSK header encoding on the intensity modulated payload". In: *ECOC*, no. 4.04, September 2002.
- [1576] Y. Wang and P. Harshavardhana and S. Chen. "A Study of Metro Network Economics Based on Sonet Ring, WDM Ring and SONE/WDM Hybrid Ring Architectures". In: *NFOEC*, no. 018, September 2002.
- [1577] S. Randel and B. Konrad and A. Hodzic and K. Petermann. "Influence of Bitwise Phase Changes on the Performance of 160 Gbit/s Transmission Systems". In: *ECOC*, no. 3.31, September 2002.
- [1578] A. Richter and M. Dazert and I. Koltchanov and E. Myslivets and A. Lowery. "Performance Degradations in High-Speed (40 Gbit/s +) Transmission Systems due to Polarization Mode Dispersion". In: *NFOEC*, no. 073, September 2002.
- [1579] A. Richter and R. Devatine and I. Koltchanov and A. Lowerty and D. Khomchenko and D. Yevseyenko and P. Moar. "Virtual Product Prototyping of Erbium Doped Fiber Amplifiers for Applications in Dense WDM Systems". In: *NFOEC*, no. 153, September 2002.
- [1580] H. Feng and E. Patzak and J. Saniter. "Size and Cascadability Limits of SOA based Burst Switching Nodes". In: *ECOC*, no. 8.5.5, September 2002.
- [1581] H.-P. Nolting and B. Sartorius. "Fast Clocked Decision - A Novel Ultra High Speed Switching Technique". In: *ECOC*, no. 8.4.5, September 2002.
- [1582] A. Hodzic and B. Konrad and S. Randel and K. Petermann. "Performance comparison of 4Nx40 Gb/s and Nx160 Gb/s transmission systems". In: *ECOC*, no. 3.24, September 2002.
- [1583] A. M. J. Koonen and A. Ng'oma and H. van den Boom and I. T. Monroy and P. Smulders and C. D. Khoe. "Microwave signal transport over multimode polymer optical fibre networks for feeding wireless LAN access points". In: *ECOC*, no. 9.2.5, September 2002.
- [1584] A. M. J. Koonen and Sulur and I. T. Monroy and J. Jennen and H. de Waardt. "Optical Labeling of Packets in IP-over-WDM networks". In: *ECOC*, no. 5.5.2, September 2002.
- [1585] C.K. Madsen and E.J. Laskowski and J. Bailey and E. Chen and A. Griffin and M.A. Cappuzzo and L. Gomez. "An Integrated Wavelength-Sensitive Polarimeter". In: *ECOC*, no. 1.2.5, September 2002.
- [1586] M. Rohde and E.-J. Bachus and F. Raub. "Monitoring of transmission impairments in long-haul transmission systems using the novel digital control modulation technique". In: *ECOC*, no. 3.13, September 2002.
- [1587] T. Martin and A. Lowery. "Systems Performance Predictions for Lossy Ring-Resonator Dispersion Compensators for WDM". In: *NFOEC*, no. 217, September 2002.
- [1588] I. White and R. Penty and M. Webster and Y. J. Chai and A. Wonfor and S. Shahkooh. "Wavelength Switching Components for Future Photonic Networks". In: *IEEE Communications Magazine*, vol. 40, pp. 74-81, September 2002.
- [1589] C.-H. Cheng and L. Lin and T. Towe and T. J. Xia and C. Wong and K. Wu and J.-C. Chiao. "Spectral Slicer without Cascaded Dispersion Penalty". In: *ECOC*, no. 2.3.4, September 2002.
- [1590] I. Shake and H. Takara. "Averaged Q-Factor Method Using Amplitude Histogram Evaluation for Transparent Monitoring of Optical Signal-to-Noise Ratio Degradation in Optical Transmission System". In: *Journal of Lightwave Technology*, vol. 20, pp. 1367-1373, August 2002.

- [1591] A. M. J. Koonen and A. Ng'oma and H. van den Boom and I. T. Monroy and P. Smulders and C. D. Khoe. "Polymer Optical Fibre network for feeding wireless LAN antenna stations". In: URSI General Assembly, no. 1833, August 2002.
- [1592] M. C. Fugihara and H. J. Kalinowski and P. S. Andre. "Estudos para Equalizacao de Ganho em um AFDE com uma unica Rede de Bragg". In: Xth. Brazilian Microwave and Optoelectronics Symposium (X SBMO), pp. 79-82, August 2002.
- [1593] L. M. Borghesi Jr. and K. K. H. Nabas and H. J. Kalinowski. "Analise para Implantacao de WDM em Enlaces Opticos existentes frente a efeitos de SRS e FWM". In: Xth. Brazilian Microwave and Optoelectronics Symposium (X SBMO), pp. 645-649, August 2002.
- [1594] S.-O. Choi and Y. H. Won. "Power Penalty Reduction by the Optimal Control of the CW Power in a Cross Phase Modulation Wavelength Converter". In: Optical Internet and Photonic Switching Conference (COIN+PS), July 2002.
- [1595] Y.-D. Jeong and H. Yoo and S.-O. Choi and Y.-H. Won. "Improvement of Input Power Dynamic Range in a XGM Wavelength Converter by a Attached Optical Amplifier Using a SOA". In: Optical Internet and Photonic Switching Conference (COIN+PS), July 2002.
- [1596] H. Yoo and Y.-t. Lim and S. Min and Y. H. Won. "Transmission Characteristics of Wavelength Hopping/Time Spreading 2-D Optical CDMA Systems". In: Optical Internet and Photonic Switching Conference (COIN+PS), July 2002.
- [1597] Y. J. Wen and T. Nirmalathas. "Impact of carrier pulse shape on 40 Gb/s based DWDM transmission". In: ACOFT, July 2002.
- [1598] A. Stavdas. "Concept presentation and performance issues of multiwavelength Label/Headers in optical packet switching". In: Optical Internet and Photonic Switching Conference (COIN+PS), July 2002.
- [1599] P. S. Andre and J. L. Pinto. "Optimising the Operation Characteristics of a LiNbO₃ based Mach-Zehnder Modulator for 10 Gbit/s Lightwave Systems". In: Journal of Optical Communications, vol. 23, pp. 234-238, June 2002.
- [1600] S. Novak and R. Gieske. "Simulink Model for EDFA Dynamics Applied to Gain Modulation". In: Journal of Lightwave Technology, vol. 20, pp. 986-992, June 2002.
- [1601] A. M. J. Koonen and Sulur and I. T. Monroy and J. Jennen and H. de Waardt. "Orthogonal Optical Labeling of Packets in IP-over-WDM Networks". In: NOC - European Conference on Networks and Optical Communications, pp. 82-89, June 2002.
- [1602] J. M. Gene and R. Nieves and A. Buxens and C. Peucheret and J. Prat and P. Jeppesen. "Reduced Driving Voltage Optical Duobinary Transmitter and its Impact on Transmission Performance over Standard Single-Mode Fiber". In: IEEE Photonics Technology Letters, vol. 14, pp. 843-845, June 2002.
- [1603] A. Hodzic and B. Konrad and K. Petermann. "Alternative Modulation Formats in N x 40 Gb/s WDM Standard Fiber RZ-Transmission Systems". In: Journal of Lightwave Technology, vol. 20, pp. 598-607, April 2002.
- [1604] A. M. J. Koonen and A. Ng'oma and H. van den Boom and I. T. Monroy and P. Smulders and C. D. Khoe. "In-house networks using Polymer Optical Fibre for broadband wireless applications". In: International Symposium on Services and Local Access, pp. 285-294, April 2002.
- [1605] Y. Feng and V. Zarzoso and A. K. Nandi. "WDM monitoring through blind signal separation". In: OFC, no. ThGG95, March 2002.
- [1606] R. A. Griffin and A. C. Carter. "Optical Differential Quadrature Phase-Shift Key (oDQPSK) for High Capacity Optical Transmission". In: OFC, no. WX6, March 2002.

- [1607] Y. Cai and T. Adali and C. R. Menyuk and J. M. Morris. "Sliding Window Criterion Codes and Concatenation Scheme for Mitigating Timing-Jitter-Induced Errors in WDM Fiber Transmissions". In: Journal of Lightwave Technology, vol. 20, pp. 201-212, February 2002.
- [1608] A. Hodzic and B. Konrad and K. Petermann. "Prechirp in NRZ-Based 40-Gb/s Single-Channel and WDM Transmission Systems". In: IEEE Photonics Technology Letters, vol. 14, pp. 152 - 154, February 2002.
- [1609] D. Dahan and G. Eisenstein. "Numerical Comparison Between Distributed and Discrete Amplification in a Point-to-Point 40-Gb/s 40-WDM-Based Transmission System With Three Different Modulation Formats". In: Journal of Lightwave Technology, vol. 20, pp. 379-388, February 2002.

2001

- [1610] A. Ng'oma and T. Koonen and I. Tafur Monroy and H. van den Boom and P. Smulders and G.-D. Khoe. "Distributing microwave signals via polymer optical fiber (POF) systems". In: Symposium IEEE/LEOS Benelux Chapter, pp. 157-160, December 2001.
- [1611] T. Niemi and M. Uusimaa and H. Ludvigsen. "Limitations of Phase-Shift Method in Measuring Dense Group Delay Ripple of Fiber Bragg Gratings". In: IEEE Photonics Technology Letters, vol. 13, pp. 1334-1336, December 2001.
- [1612] C. Lim and A. Nirmalathas and D. Novak and R. S. Tucker and R. B. Waterhouse. "Wavelength-interleaving technique to improve optical spectral efficiency in millimetre-wave WDM fiber-radio". In: LEOS Annual Meeting, pp. 54-55, November 2001.
- [1613] A. Kaszubowska and L. Barry and P. Anandarajah. "Optical generation of millimetre-wave frequencies for hybrid radio/fiber systems". In: 1st Joint IEI/IEE Symposium on Telecommunications Systems Research, no. E5, November 2001.
- [1614] A. Richter and D. K. C. Chan. "VPIsystems Industry Training Program on Computer-Aided Design of Fiber-optic Communication Systems". In: ETOP, vol. SPIE 4588, pp. 432-439, November 2001.
- [1615] A. Hodzic and B. Konrad and K. Petermann. "Improvement of NRZ based 40Gbit/s single channel and WDM transmission using pre-chirp". In: LEOS Annual Meeting, pp. 218-219, November 2001.
- [1616] D. K. C. Chan and A. Richter. "CAD-supported university course on photonics and fiber optic communications". In: ETOP, vol. SPIE 4588, pp. 423-431, November 2001.
- [1617] E. Mutafungwa. "Optical hop number limits imposed by various 2 x 2 cross-connect node designs". In: Optics Express, vol. 9, pp. 400-410, October 2001.
- [1618] S. K. Arabasi and M. Yasin Akhtar Raja and A. M. Samara. "Simulations of Polarization Mode Dispersion Phenomena and Compensation using VPI* Software Package". In: SPIE Symp. Optical Devices, Components & Systems, OPTO South East, October 2001.
- [1619] M.T. Hill and H. de Waardt and G. D. Khoe and H. J. S. Dorren. "Fast optical flip-flop by use of Mach-Zehnder interferometers". In: Microwave and Optical Technology Letters, vol. 31, pp. 411-415, October 2001.
- [1620] E. Schulze and R. Freund and M. Malach and F. Raub. "10 Gb/s NRZ Transmission over 1800 km Multiple Pumped Distributed Raman Amplified Transmission Link Without Lumped Amplifiers". In: ECOC, no. Tu.A.2.3, September 2001.
- [1621] S. Yang and K. Williams and R. V. Penty and I. H. White and I. Wood and J. K. White. "Enhanced performance of uncooled strongly-gain-coupled MQW DFB lasers in 10 Gb/s link applications". In: ECOC, no. Tu.B.1.4, September 2001.
- [1622] S. Aleksic and V. Krajinovic and K. Bengi. "A novel scalable optical packet compression/decompression scheme". In: ECOC, no. We.P.51, September 2001.
- [1623] T. Niemi and G. Genty and H. Ludvigsen. "Group-delay measurement using the phase-shift method". In: ECOC, no. Th.M.1.5, September 2001.
- [1624] A. Hodzic and B. Konrad and K. Petermann. "Novel Modulation Format for Nx40 Gbit/s WDM Transmission with 50 GHz Channel Spacing". In: ECOC, no. Mo.L.3.3, September 2001.
- [1625] C. Bornholdt and S. Bauer and M. Moehrle and H.-P. Nolting and B. Satorius. "All optical clock recovery at 80 GHz and beyond". In: ECOC, no. Th.F.1.2, September 2001.

- [1626] B. Konrad and A. Hodzic and K. Petermann. "Dispersion compensation schemes for 160 Gb/s TDM-transmission over SSMF and NZDSF". In: ECOC, no. Tu.L.2.4, September 2001.
- [1627] E. Mutafungwa and S. J. Halme. "On the use of optical spreading codes to design DWDM systems with reduced FWM crosstalk". In: Optics Communications, vol. 198, pp. 339-350, August 2001.
- [1628] E. F. Woellner and M. C. Fugihara and M. Vendramin and E. Chitz and H. J. Kalinowski and M. J. Pontes. "High gain EDFA using ASE suppression: numerical simulation and experimental characterization". In: 4th Iberoamerican Meeting on Optics and 7th Latin American Meeting on Optics, Lasers, and Their Applications, vol. SPIE 4419, pp. 90-93, August 2001.
- [1629] E. Mutafungwa. "Circulating loop simulations for transmission performance comparison of various node architectures". In: Journal on Optics A: Pure and Applied Optics, vol. 3, pp. 255-261, July 2001.
- [1630] P. S. Andre and J. L. Pinto and I. Abe and H. J. Kalinowski and O. Frazao and F. M. Araujo. "Fiber Bragg Grating For Telecommunications Applications: Tunable Thermally Stress Enhanced OADM". In: Journal of Microwaves and Optoelectronics, vol. 2, July 2001.
- [1631] S. D. Dods and A. Lowery. "Temporal Statistics of Crosstalk-induced errors in WDM Optical Network". In: NFOEC, no. 097, July 2001.
- [1632] Y. Agarwal and P. Harshavardhana and M. Kumar and A. Mittal and J. Strand. "Wavelength routing with Limited Range Tunability". In: NFOEC, no. 140, July 2001.
- [1633] A. Richter and A. Lowery and P. Wildhagen. "Estimation of BER in the Presence of Timing Jitter in WDM Transmission Systems using RZ Modulation Format". In: NFOEC, no. 098, July 2001.
- [1634] D. F. Hewitt and A. Lowery. "Unexpected Limits on Digital QAM Cable Access Systems due to Four-Wave Mixing". In: NFOEC, no. 132, July 2001.
- [1635] A. Kaszubowska and L. Barry and P. Anandarajah. "Generation of optical microwave signals using laser diodes with enhanced modulation response for hybrid radio/fiber systems". In: IEEE 3rd International Conference on Transparent Optical Networks, pp. 271-274, June 2001.
- [1636] A. Stavdas and C. Skoufis and I. Angelopoulos and G. Stassinopoulos and I. Pountourakis. "Multi-lambda Packet Labeling for Metropolitan and Wide-Area Optical Networks". In: Photonic Network Communications, vol. 3, pp. 131-145, June 2001.
- [1637] V. Krajinovic and S. Aleksic and G. Reimsak and K. Bengi and H. R. Van As. "All-optical address recognition based on Mach-Zehnder interferometer". In: NOC - European Conference on Networks and Optical Communications, pp. 324-329, June 2001.
- [1638] P. S. Andre and J. Pinto and A. J. Teixeira and T. Almeida and A. Nolasco Pinto and J. L. Pinto and F. Morgado and M. Pousa. "Strictly Non-Blocking Optical Cross - Connect for WDM Wavelength Path Networks". In: 3rd Conf. on Telecommunications - Conftel, pp. 279-284, April 2001.
- [1639] B. Konrad and K. Petermann. "Optimum Fiber Dispersion in High-Speed TDM Systems". In: IEEE Photonics Technology Letters, vol. 13, pp. 299-301, April 2001.
- [1640] W. Mao and M. Al-Mumin and X. Wang and G. Li. "All-Optical Enhancement of Clock and Clock-to-Data Suppression Ratio of NRZ Data". In: IEEE Photonics Technology Letters, vol. 13, pp. 239-241, March 2001.
- [1641] G. Theophilopoulos and K. Yiannopoulos and M. Kalyvas and C. Bintjas and G. Kalogerakis and H. Avramopoulos and L. Occhi and L. Schares and G. Guekos and S. Hansmann and F. Dall'Ara. "40 GHz all-optical XOR with UNI gate". In: OFC, no. MB2-1, March 2001.
- [1642] C. Caspar and K. Habel and N. Heimes and M. Konitzer and M. Malach and H. Oezdem and M. Rohde and F. Schmidt and E.-J. Bachus and N. Hanik. "Penalties through XPM crosstalk in a switched long haul standard fiber WDM system based on normalized transmission sections". In: OFC, no. W15-1, March 2001.

- [1643] I. Bibac. "Simulation of photonic devices-L-band amplifier". In: Journal of Optoelectronics and Advanced Materials, vol. 3, pp. 51 - 58, March 2001.

2000

- [1644] A. Stavdas and G. L. Bona and W. Denzel. "Scalability Issues in Corporate Optical Backbone WDM Add/Drop Ring Networks". In: Optics Communications, vol. 184, pp. 127-139, October 2000.
- [1645] N. Hanik and C. Caspar and F. Schmidt and R. Freund and L. Molle and C. Peucheret. "Optimized design of transparent optical domains". In: ECOC, vol. 3, pp. 195-197, September 2000.
- [1646] V. Saxena and M. Owen and M. F. C. Stephens and A. Wonfor and R. V. Penty and I. H. White. "All-Optical 3R Regeneration and Wavelength Conversion in an Integrated SOA/DFB Laser: Experiment and Simulation". In: CLEO Europe, no. CMH2, September 2000.
- [1647] S. Aleksic and K. Bengi. "Multicast-capable access nodes for slotted ring photonic networks". In: ECOC, vol. 3, pp. 83-84, September 2000.
- [1648] A. Kaszubowska and P. Anandarajah and L. Barry. "Optically fed microwave system using laser diodes with enhanced modulation Bandwidth". In: IEEE High Frequency Postgraduate Student Colloquium, September 2000.
- [1649] V. Grigoryan and A. Richter. "Efficient Approach for Modeling Collision-Induced Timing Jitter in WDM Return-to-Zero Dispersion-Managed Systems". In: Journal of Lightwave Technology, vol. 18, pp. 1148-1154, August 2000.
- [1650] T. Yu and W. M. Reimer and V. S. Grigoryan and C. R. Menyuk. "A Mean Field Approach for Simulating Wavelength-Division Multiplexed Systems". In: IEEE Photonics Technology Letters, vol. 16, pp. 443-445, April 2000.
- [1651] Y. Cai and T. Adali and C. Menyuk. "A line coding scheme for reducing timing jitter in WDM soliton systems". In: OFC, no. ThS4-2, March 2000.
- [1652] N. Gisin and B. Huttner and N. Cyr. "Influence of polarization dependent loss on birefringent optical fiber networks". In: OFC, no. TuG1-1, March 2000.
- [1653] A. Lowery. "Phase portraits for characterizing advanced lasers". In: OFC, no. WM23-1, March 2000.
- [1654] A. Lowery and O. Lenzmann and I. Koltchanov and R. Moosburger and R. Freund and A. Richter and S. Georgi and D. Breuer and H. Hamster. "Multiple Signal Representation Simulation of Photonic Devices, Systems, and Networks". In: Journal of Selected Topics in Quantum Electronics, vol. 6, pp. 282-296, March 2000.
- [1655] B. Huttner and C. Geiser and N. Gisin. "Polarization-Induced Distortions in Optical Fiber Networks with Polarization-Mode Dispersion and Polarization-Dependent Losses". In: Journal of Selected Topics in Quantum Electronics, vol. 6, pp. 317-329, March 2000.

1999

- [1656] R. Damle and R. Freund and D. Breuer. "Outside-in evaluation of commercial WDM systems". In: NFOEC, vol. 1, no. B3-3, pp. 450-454, September 1999.