Deming Kong - DTU Orbit (21/10/2019)

Deming Kong
Department of Photonics Engineering - Postdoc
High-Speed Optical Communication
Centre of Excellence for Silicon Photonics for Optical Communications
Person: VIP

Research outputs:

Optical sampling to enhance Nyquist-shaped signal detection under limited receiver bandwidth
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

All-optical OFDM demultiplexing with optical partial Fourier transform and coherent sampling
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Foundry-Fabricated Dual-DFB PIC Injection-Locked to Optical Frequency Comb for High-Purity THz Generation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2019 › Research › peer-review

Integrated Dual-DFB Laser for 408 GHz Carrier Generation Enabling 131 Gbit/s Wireless Transmission over 10.7 Meters
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2019 › Research › peer-review

Wavelength Conversion of 10 Gbit/s Data from 2000 to 1255 nm using an AlGaAsOI Nanowaveguide and a Continuous-Wave Pump in the C Band
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2019 › Research › peer-review

Filtered Carrier Phase Estimator for High-Order QAM Optical Systems
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Kramers-Kronig detection with adaptive rates for 909.5 Tbit/s dense SDM and WDM data channels
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

640 Gbit/s return-to-zero to non-return-to-zero format conversion based on optical linear spectral phase filtering
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review
Passive linear-optics 640 Gbit/s logic NOT gate

Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

320 Gb/s Nyquist OTDM received by polarization-insensitive time-domain OCT

Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

640 Gbit/s RZ-to-NRZ format conversion based on optical phase filtering

Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

All-optical OFDM demultiplexing by spectral magnification and band-pass filtering

Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Real-time all-optical OFDM transmission system based on time-domain optical fourier transformation

Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Ultrafast all-optical clock recovery based on phase-only linear optical filtering

Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Projects:

Silicon Photonic Integrated Circuits for Optical Processing aided Artificial Intelligence
Meng, X., Hu, H., Ding, Y. & Kong, D.
01/08/2019 → 31/07/2022
Project: PhD