

## Sergio Pinna - List of Publications

### conference proceedings:

1. Nguyen A., Porzi C., Pinna S., Contestabile G., Bogoni A., "40 Gb/s All-Optical Selective Wavelength Shifter", CLEO 2012 paper CM2A.2
2. Bontempi F.; Pinna S.; Andriolli N.; Porzi C.; Bogoni A.; Leijtens X.; Bolk J.; Contestabile G., "Current-Controlled InP Monolithically Integrated DPSK Demodulator", CLEO 2012 paper CM2A.1
3. Bontempi F.; Pinna S.; Andriolli N.; Porzi C.; Berrettini G.; Leijtens X.; Bolk J.; Bogoni A.; Contestabile G. ; "All-optical monolithically integrated differential XOR", OFC 2012 paper OTh4F.5
4. Anis M. I., Amaya N., Zervas G. S., Nejabati R., Simeonidou D., Scaffardi M., Bogoni A., Pinna S., Fresi F., "Defragmentation and Grooming on 85.4 Gb/s by Simultaneous Format and Wavelength Conversion in an Integrated Quad SOA-MZI", ONDM 2012.
5. Bontempi F., Pinna S., Andriolli N., Porzi C., Berrettini G., Contestabile G., "Monolithically Integrated InP Optical Circuit Exploiting SOABased Loop", Fotonica 2012 paper C2.2
6. Scaffardi M., Vercesi V., Pinna S., Bogoni A., "All-Optical SOA-Assisted 40 Gbit/s DQPSK-to-OOK Format Conversion", OSC 2012.
7. Pinna S., Porzi C., Contestabile G., Bogoni A., "Wavelength Characterization of All-Optical Wavelength Shifter", Photonic in Switching 2012.
8. Laghezza F., Scotti F., Ghelfi P., Bogoni A., Pinna S., "Jitter-Limited Photonic Analog-to-Digital Converter with 7 Effective Bits for Wideband Radar Applications", International Radar Conference 2013.
9. Pinna S., Malacarne A., Bogoni A., "Optical Grooming of 20Gbps OOK and 40Gbps DQPSK Signals in PPLN Waveguide", Photonic in Switching 2013.
10. Scotti F., Laghezza F., Pinna S., Ghelfi P., and Bogoni A., "High Precision Photonic ADC with Four Time-Domain-Demultiplexed Interleaved Channels", Photonic in Switching 2013.
11. Bogoni A., Ghelfi P., Laghezza F., Scotti F., Serafino G., Pinna S., "Photonic-assisted RF transceiver", ECOC 2013 (invited).
12. Pinna S., Malacarne A., Bogoni A., "Optical Grooming of OOK and DQPSK Signals by 8 APSK Signal Generation in PPLN Waveguide", ECOC 2013.
13. Scotti F., Ghelfi P., Laghezza F., Serafino G., Pinna S., Bogoni A., "Flexible True-Time-Delay Beamforming in a Photonics-Based RF Broadband Signals Generator" ECOC 2013.
14. Bogoni A., Ghelfi P., Laghezza F., Scotti F., Serafino G., Pinna S., "PHODIR: Photonics-based fully digital radar system" MWP 2013.
15. Pierno L., Fiorello A. M., Bogoni A., Ghelfi P., Laghezza F., Scotti F., Pinna S., "Optical switching matrix as Time Domain Demultiplexer in photonic ADC" EUMiC 2013.

#### Journals and Letters Publications:

1. Pinna S., Porzi C., Contestabile G., Bogoni A., "Broadband Operation of High-Speed Selective All-Optical Wavelength Shifter", Photonic Technology Letter, Vol. 24, Issue 17, pp. 1546-1548 (2012).
2. Bontempi F., Pinna S., Andriolli N., Bogoni A., Leijtens X.J.M., Bolk J., Contestabile G., "Multifunctional Current-Controlled InP Photonic Integrated Delay Interferometer" Journal of Quantum Electronics, Vol. 48, Issue 11, pp. 1453-1460 (2012).
3. Anis M. I., Amaya N., Zervas G., Pinna S., Scaffardi M., Fresi F., Bogoni A., Nejabati R., Simeonidou D., "Field Trial Demonstration of Spectrum Defragmentation and Grooming in Elastic Optical Node", Journal Of Lightwave technology, Vol. 31, Issue 12, pp. 1845-1855 (2013).
4. Porzi C., Serafino G., Pinna S., Nguyen A., Contestabile G., Bogoni A., "Review on SOA-MZI-based photonic add/drop and switching operations," Front. Optoelectronics, 6(1), pp. 6777 (2013).
5. Pinna S., Malacarne A., Lazzeri E., Bogoni A., "PPLN-Based OOK and DQPSK Optical Grooming by Amplitude and Phase Signal Multiplexing through Pump Depletion," Optics Letters, Vol. 38, Issue 19, pp. 3870–3873 (2013).
6. Ghelfi P., Laghezza F., Scotti F., Serafino G., Pinna S., and Bogoni A., "Photonic generation and independent steering of multiple RF signals for software defined radars" Optics Express, Vol. 21 Issue 19, pp.22905-22910 (2013).

#### Patents:

1. Ghelfi P., Scotti F., Laghezza F., Serafino G., Pinna S., Bogoni A.; "Flexible True-Time-Delay Beamforming in a Photonics-Based RF Broadband transmitter".