

Filippo Scotti – List of publications

Journals – regular papers

- Ghelfi P., **Scotti F.**, Nguyen A., Serafino G., and Bogoni A., "Novel Architecture for a Photonics-Assisted Radar Transceiver Based on a Single Mode-Locking Laser", *IEEE Photonics Technology Letters*, Vol. 23, N. 10, pp. 639-641, May 2011.
- Serafino G., **Scotti F.**, Berrettini G., Contestabile G., Bogoni A.; "Regenerative Optical Buffer based on SOA-amplified Recirculating Loop", *IEEE Photonics Technology Letters*, N. 99, 2011.
- Scotti F.**, Berrettini G., Contestabile G., Bogoni A.; "A Regenerative Variable Optical Buffer for NRZ and RZ Packets", *Journal of Lightwave Technology*, vol. 30, no. 9, pp. 1366-1372, 2012.
- Ghelfi P., **Scotti F.**, Laghezza F., Bogoni A.; "Photonic Generation of Phase-Modulated RF Signals for Pulse Compression Techniques in Coherent Radars", *Journal of Lightwave Technology*, vol. 30, no. 11, pp. 1638-1644, 2012.
- Ghelfi P., **Scotti F.**, Laghezza F., Bogoni A.; "Phase Coding of RF Pulses in Photonics-Aided Frequency-Agile Coherent Radar Systems", *IEEE J. Quantum Electron.* Vol. 48, n. 9, pp. 1151-1157, Sept 2012.
- Ghelfi P., **Scotti F.**, Serafino G., Laghezza F., and Bogoni A.; "Flexible Receiver for Multi-Band OFDM Signals at Millimeter-Waveband based on Optical Down-Conversion", *Optics Letters* Vol. 37, n. 18, Sept 2012.

Journals – invited papers

- Bogoni A., Ghelfi P., Laghezza F., **Scotti F.**, Serafino G., Pinna S.; "Photonic generation and independent steering of multiple RF signals for software defined radars", *Optics Express*, Vol. 21 n. 19, pp. 22905-22910, Sept 013.

Conferences – regular contributions

- Ghelfi P., **Scotti F.**, Nguyen A., Serafino G., Bogoni A.; "Ultra-stable radar signal from a photonics-assisted transceiver based on single mode-locking laser", *OFC/NFOEC*, Los Angeles, USA, OThA2., March 6-10, 2011.
- Scotti F.**, Berrettini G., Serafino G., Contestabile G., Bogoni A.; "Regenerative Re-circulating Loop for Optical Buffering", *IEEE Photonics Conference*, Arlington, USA, ME5, October 9-13, 2011.
- Laghezza F., **Scotti F.**, Ghelfi P., Bogoni A.; "Flexible Photonic Generation of Low-Phase-Noise Phase-Coded Radar Pulses", *Optronics in Defence and Security Conference (OPTRO) Conference*, Paris, France, February 8-12, 2012.
- Scotti F.**, Laghezza F., Ghelfi P., Bogoni A.; "High-Stability Phase-Coded RF Pulses for Coherent Radars from a Mode-Locking Laser", *OFC/NFOEC*, Los Angeles, USA, OW4H.7, March, 2012.
- Ghelfi P., **Scotti F.**, Laghezza F., Bogoni A.; "Photonics Generation of Phase-Modulated RF Pulses with Carrier Frequency Agility for Software-Defined Coherent Radars", *OFC/NFOEC*, Los Angeles, USA, OW4H.6, March, 2012.
- Berrettini G., **Scotti F.**, Contestabile G., Bogoni A.; "A Regenerative Variable Optical Buffer for NRZ and RZ packets", *OFC/NFOEC*, Los Angeles, USA, OTh1G.2, March, 2012.
- Berrettini G., Meloni G., **Scotti F.**, Poti L., Bogoni A.; "Variable All-Optical buffering for DQPSK Packets", *OFC/NFOEC*, Los Angeles, USA, OTh1G.1, March, 2012.
- Ghelfi P., Serafino G., **Scotti F.**, Laghezza F., Bogoni A.; "Flexible Multi-Band OFDM Receiver Based on Optical Down-Conversion for Millimeter Waveband Wireless Base Stations", P6.06, *ECOC 2012*, Amsterdam, The Netherlands, Sept 2012.
- Laghezza F., **Scotti F.**, Ghelfi P., and Bogoni A.; "Photonic generation of microwave phase coded radar signal", *International Conference on Radar System 2012*, Glasgow, UK, Oct 2012.
- Laghezza F., **Scotti F.**, Ghelfi P., Pinna S., Bogoni A.; "Jitter-Limited Photonic Analog-to-Digital Converter with 7 Effective Bits for Wideband Radar Applications", *International Radar Conference 2013*, Ottawa, Canada, May 2013.
- Scotti F.**, Laghezza F., Pinna S., Ghelfi P., Bogoni A.; "High Precision Photonic ADC with Four Time-Domain-Demultiplexed Interleaved Channels", TuO1-3, *Photonics in Switching 2013*, Kyoto, Japan, July 2013.
- 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", Th2B5, *ECOC 2013*, London, UK, Sept 2013.
- 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", *Proc on 2013 European Microwave Integrated Circuits Conference*.

Conferences – invited contributions

Bogoni A., Ghelfi P., Serafino G., Laghezza F., **Scotti F.**; “Photonics Techniques for the Flexible Generation of Ultra-Stable Microwave and Millimeterwave Radar Signals”, POEM 2012, Wuhan, China, Nov 2012.

Bogoni A., Ghelfi P., Laghezza F., **Scotti F.**; “Photonics for new generation fully-digital radar and wireless communication systems: from the photonic-based RF signal generation to the optical RF sampling”, IWT, Santa Rita do Sapucaí, Brazil, May 2013.

Bogoni A., Ghelfi P., Laghezza F., **Scotti F.**, Serafino G., Pinna S., “Photonic-assisted RF transceiver”, We4F3, ECOC 2013, London, UK, Sept 2013.

Bogoni A., Ghelfi P., Laghezza F., **Scotti F.**, Serafino G., Pinna S., “PHODIR: Photonic-based fully digital radar system” in Proc. on MWP 2013.