

Workshop on “Digital photonics for signal processing in broad-band all-optical communication”

Organizer: *Giancarlo Prati*, Scuola Superiore Sant’Anna & CNIT, Pisa, Italy

Chairperson: *Antonella Bogoni*, CNIT Nat’l Photonic Networks Lab, Pisa, Italy

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Technical program

- 14.00-14.25 , “Demonstration of all-optical packet switching network at 160 Gb/s over an installed fiber link”, *Harm J.S. Dorren*, DTU (The Netherlands), e-mail: H.J.S.Dorren@tue.nl.
- 14.25-14.50 “Implementation of an optical packet switching node prototype with 10GbE/Optical-packet converter”, *Hideaki Furukawa and Naoya Wada*, NICT (Japan), e-mail: wada@nict.go.jp.
- 14.50-15.15 “Analog-to digital photonic converter with state of art of photonic digital signal processing in Japan”, *Ken-ichi Kitayama*, Osaka University (Japan), e-mail: kitayama@comm.eng.osaka-u.ac.jp.
- 15.15-15.40 “Implementation of photonic digital signal processing subsystems based on discrete devices”, *Antonella Bogoni*, CNIT Nat’l Photonic Networks Lab, (Italy), e-mail: antonella.bogoni@cnit.it.
- 15.40-16.00 Coffee Break
- 16.00-16.25 "Silicon-based devices for photonic subsystems", *Bahram Jalali*, UCLA (USA), e-mail: jalali@ucla.edu.
- 16.25-16.50 "Integrated optics on glass for photonic digital processing", *Jean-Emmanuel Broquin*, IMEP/ENSERG (France), e-mail: broquin@enserg.fr
- 16.50-17.15 “Plasmonics for signal processing”, *Lars Thylen*, KTH (Sweden), e-mail: lthylen@imit.kth.se.
- 17.15-17.40 “Energy consumption in digital photonic signal processing”, *Rod Tucker*, University of Melbourne (Australia), e-mail: rst@ee.unimelb.edu.au