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University of Pavia

Ph.D. School in Electronics, Computer Science and Electrical Engineering
Ph.D. School in Microelectronics



Italian Chapter

SEMINAR

Wavelength Switching Technologies and Coherent Systems Design in Photonic Networks

Emilio Riccardi
TELECOM ITALIA

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Aula Seminari Magenta-Piano D

Dipartimento di Ingegneria Industriale e dell'Informazione

This presentation offers a survey of wavelength switching technologies and transmission systems based on phase modulation and coherent detection and provides an introduction to the Gaussian Noise model extensively used in coherent transmission system design. The benefits of these technologies applied to the Telecom Italia photonic metro-regional and backbone networks are also described.

Bio: Emilio Riccardi after graduation in Physics from University of Torino (Italy), joined Telecom Italia Lab (formerly CSELT, now TIM) in 1992 where he is currently working in the "Technology Innovation" department leading the project dedicated to innovation in the Optical Transport Layer. His current interest is dedicated to Elastic Optical Networks and optical "white boxes" in a SDN ecosystem. He has been involved in several EU Projects, recently coordinating the data plane Working Package of the METRO-HAUL EU project. Currently he is involved in the Marie Curie Action MENTOR. He has co-authored more than 40 journal and conference publications.

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