

PHOTONICS SEMINAR

Silicon photonics for communication and
emerging applications

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137C

Abstract

In this talk, we will present LETI's silicon photonics technologies and process integration challenges to meet the very different requirements of legacy (datacoms, telecoms) as well as emerging (lidar, sensing, high performance computing, neuromorphic computing) applications.

Benoit Charbonnier received his engineering degree in 1994 from Ecole Nationale Supérieure des Télécommunications de Paris and received his Ph.D. degree in 1997 on 40-Gbps soliton transmission from the same institution. In 1997, he joined Nortel Network in Harlow, UK, in the Advanced Communications group where he worked on 80-Gbps long haul transmission and then, in 2001, joined Marconi Communications to develop an ultra-long haul 10-Gbps based transmission product. In 2004, he joined Orange Labs as research engineer, focusing on next generation optical access networks and particularly on digital signal processing applied to optical communications. In 2015, he joined CEA-Leti, in Grenoble, leading the photonics program within the French Institute of Technology Naoelec, developing industrial partnerships to promote silicon photonics technologies.