

October 13th Symposium on Future Optical Networks & Communications

Session 1: 11:00 – 12:30 (hybrid)

Chairperson: Lena Wosinska

11:00 – 11:20 Xiang Liu, Huawei, *Invited* (on-site)

Innovative Optical Network Technologies for F5G and Beyond

11:20 – 11:40 Carmen Mas Machuca, Technical University of Munich, *Invited* (on-line)

Cost-efficient Multi-period Optical Network Planning: Alternatives and Analysis

11:40 – 12:00 Christine Tremblay, École de technologie supérieure, *Invited* (on-site)

Agile Metropolitan Filterless Optical Networking

12:00 – 12:10 Abdulhalim Fayad, Budapest Univ. of Technology and Economics (on-site)

Cost-Efficient Optical Fronthaul Architectures for 5G and Beyond Networks

12:10 – 12:20 Jaya Lakshmi Ravipudi, University of Virginia (on-site)

A Score Function Heuristic for Crosstalk- and Fragmentation-Aware Dynamic Routing, Modulation, Core, and Spectrum Allocation in SDM-EONs

12:20 – 12:30 Questions & Answers

Session 2: 14:00 – 15:30 (hybrid)

Chairperson: Daniel Kilper

14:00 – 14:25 Andrew Lord, British Telecom, *Invited* (on-line)

A Vision for Optical Networks in a World of Increased Energy Costs, and Bottlenecks in Electronic Switching and Optical Spectral Efficiency

14:25 – 14:50 Jun Shan Wey, Verizon, *Invited* (on-site)

Accelerating high speed broadband services through wireline wireless access

14:50 – 14:15 Massimo Tornatore, Politecnico di Milano, *Invited* (on-line)

End-to-end Learning or Parameter Refinement? Lessons Learned when using Machine Learning in Optical Networks

14:15 – 14:30 Hiroshi Hasegawa, Nagoya University, *Contributed* (on-line)

Efficient Network Capacity Expansion by Differentiated WDM-Density with Bandwidth-Variable Virtual Direct Links

Session 3: 16:00 – 17:30 (virtual)

Chairperson: Daniel Kilper

16:00 – 16:25 Christina Lim, University of Melbourne, *Invited*

Optical X-haul for 5G /6G: Design and Deployment Standpoint

16:25 – 16:50 Darli Augusto de Arruda Mello, University of Campinas, *Invited*

Digital Twins in Optical Networks: Insights and Applications

16:50 – 17:15 Chongjin Xie, Alibaba Group, *Invited*

Scaling Optical Interconnects for Future Data Center Networks

17:15 – 17:30 Yijie Tao, University of Melbourne, *Contributed*

Link failure recovery in SDN-Enabled Reconfigurable 6G Crosshaul Architecture