

Room C (Grand Ballroom 3), 2F

Chair: Emilio Paolini
(Scuola Superiore Sant'Anna)

We2C

Satellite Optical Communication

July 1 (Wed), 2026

13:15-14:45

We2C-1

13:15-13:30

Analysis on Benefit of Introducing WDM into Inter-satellite All-optical Networks

Shoichiro Oda, Anthony Brasi, Yusuke Hirota, Hideaki Kotake, Satoshi Shinada, Hideaki Furukawa
National Institute of Information and Communications Technology

We2C-2

13:30-13:45

Load-Balanced Routing and Access Selection with Wavelength Alignment Degree in LEO Satellite Optical Networks

Yu Sun¹, Zhiyuan Che¹, Yuneng Deng¹, Liulei Zhou¹, Bowen Chen^{1,2}
Politecnico di Torino

We2C-3

13:45-14:00

Demonstration of Rate-Adaptive, Multi-Rate Quality-of-Transmission Estimation in Inter-Satellite All-Optical Networks

Anthony Brasi, Shoichiro Oda, Yusuke Hirota, Hideaki Kotake, Satoshi Shinada, Hideaki Furukawa
National Institute of Information and Communications Technology

We2C-4

14:00-14:15

Temporal and Spatial Variation-Based Turbulence Adaptive Prediction for Reliable Satellite-Ground Optical Network

Zhe Niu¹, Hui Yang¹, Qiuyan Yao¹, Yuxuan Yan¹, Buzheng Wei², Jie Zhang¹
¹Beijing University of Posts and Telecommunications, ²China Unicom Research institute

We2C-5

14:15-14:30

DRL-STR: Penalty-Aware Topology Learning Optimization for Dynamic Satellite Optical Networks

Zhao Li, Hui Yang, Qiuyan Yao, Jingchao Mai, Jie Zhang
Beijing University of Posts and Telecommunications

We2C-6

14:30-14:45

Mobile Orbital Domain-Based Hierarchical Routing with Joint Path and Gateway Selection

Zilong Ye^{1,2}, Philip N. Ji¹, Ting Wang¹
¹NEC Laboratories America, ²California State University Los Angeles