

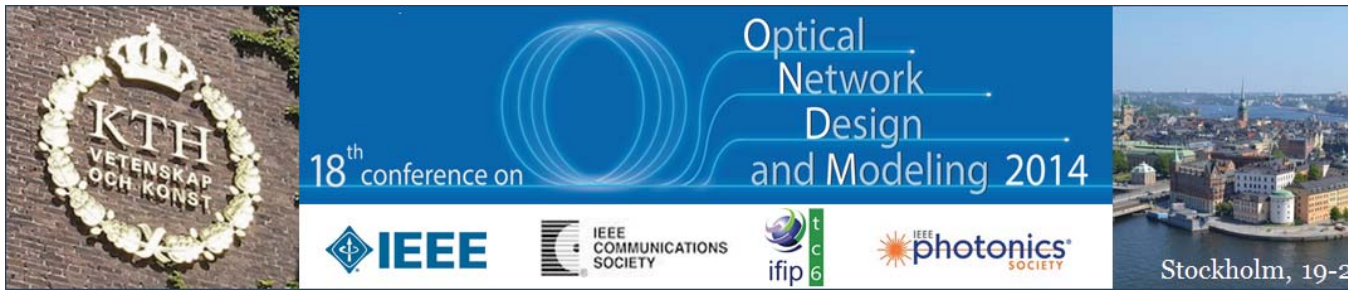
2014 International Conference on Optical Network Design and Modeling

(ONDM 2014)

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2014 International Conference on Optical Network Design and Modeling (ONDM)

	Monday, May 19	Tuesday, May 20	Wednesday, May 21	Thursday, May 22
9:00 - 10:00		K2: Keynote	K3: Keynote	
10:00 - 11:00		S2: Software Defined Networks (SDN)	S6: Techno-Economics in Optical Networks	
11:00 - 11:30				DISCUS Workshop
11:30 - 13:00		S3: Flexible Grid Optical Networks	S7: Optical Networks Systems and Architectures	
13:00 - 13:30	Opening Talk			
13:30 - 14:30	K1: Keynote			
14:30 - 15:00				
15:00 - 16:00		S4: Data Centers	S8: Poster Session	S10: Optical Networks Design
16:00 - 16:30	S1: Survivability in Optical Networks			
16:30 - 17:00				
17:00 - 18:00		S5: Energy Efficiency in Optical Networks	S9: Network Virtualization	
18:00 - 18:30				



Monday, May 19

13:00 - 13:30

Opening Talk

Chair: Lena Wosinska (KTH Royal Institute of Technology, Sweden)

13:10 *Challenges for the Networked Society*

Sandor Albrecht (Director, IP and Transport, Ericsson Research, Sweden)

13:30 - 14:30

K1: Keynote

Chair: Lena Wosinska (KTH Royal Institute of Technology, Sweden)

13:30 *Dynamic, Fast and Agile On-Demand Optical Network Architecture*
Vincent Chan (Massachusetts Institute of Technology, USA)

15:00 - 17:00

S1: Survivability in Optical Networks

Chair: George N. Rouskas (North Carolina State University, USA)

15:00 *Applying p-Cycle Technique to Elastic Optical Networks*

Yue Wei (Soochow University, P.R. China); Kai Xu (University of Electronic Science and Technology of China, P.R. China); Heming Zhao (Soochow University, P.R. China); Gangxiang Shen (Soochow University, P.R. China)

15:20 *Survivability of Multicast Requests in Mesh Optical Networks*

Costas Constantinou (University of Cyprus, Cyprus); Georgios Ellinas (University of Cyprus, Cyprus); Konstantinos Manousakis (University of Cyprus & KIOS Research Center, Cyprus)

15:40 *Protection strategies for Next Generation Passive Optical Networks -2*

Abhishek Dixit (University of Ghent & IBBT, Belgium); Mozghan Mahloo (KTH Royal Institute of Technology, Sweden); Bart Lannoo (Ghent University - iMinds, Belgium); Jiajia Chen (KTH Royal Institute of Technology, Sweden); Lena Wosinska (KTH Royal Institute of Technology, Sweden); Didier Colle (iMinds - Ghent University, Belgium); Mario Pickavet (Ghent University - iMinds, Belgium)

16:00 *Survivable overlay multicasting in WDM optical networks with dual homing architecture*

Wojciech Kmiecik (Wroclaw University of Technology, Poland); Krzysztof Walkowiak (Wroclaw University of Technology, Poland)

16:20 *Topology-dependent selective and partial protection of optical access networks*

Gergely Köles (Budapest University of Technology and Economics, Hungary); Attila Mitcsenkov (Budapest University of Technology and Economics, Hungary); Tibor Cinkler (Budapest University of Technology and Economics, Hungary)

16:40 *A Scalable Optimisation Approach to Minimising IP Protection Capacity for Long-Reach PON*

Deepak Mehta (University College Cork, Ireland); Barry O'Sullivan (University College Cork, Ireland); Luis Quesada (University College Cork, Ireland); Marco Ruffini (CTVR, Trinity College Dublin, Ireland); David B Payne (Trinity College Dublin, United Kingdom); Linda Doyle (Trinity College Dublin, Ireland)

Tuesday, May 20

09:00 - 10:00

K2: Keynote

Chair: Piero Castoldi (Scuola Superiore Sant'Anna, Italy)

09:00 *Multi-layer interworking and SDN: a perfect match*

Ori Gerstel (SDN Solutions)

10:00 - 11:10

S2: Software Defined Networks (SDN)

Chair: Siamak Azodolmolky (GWDG, Germany)

10:00 *SDN an Enabler for Multi-Dimensional and Multi-Tenant Optical Networks (Invited)*

Reza Nejabati (University of Bristol, United Kingdom); Shuping Peng (University of Bristol, United Kingdom); Mayur Channegowda (University Of Bristol & High Performance Network Group, United Kingdom); Dimitra Simeonidou (University of Bristol, United Kingdom)

10:30 *Demonstration of Software-Defined FlexPON*

Lei Zhou (Advanced Access Network Research & Huawei Technologies, P.R. China); Huafeng Lin (Huawei Technologies, P.R. China); Guikai Peng (Huawei Technologies, P.R. China); Naresh Chand (Futurewei Technologies, USA); Zhenping Wang (Huawei Technologies, Sweden); Feng Wang (Huawei Technologies, P.R. China)

10:50 *Carrier SDN to Control Flexgrid-based Inter- Datacenter Connectivity*

Adrian Asensio (Universitat Politècnica de Catalunya (UPC), Spain); Luis Velasco (Universitat Politècnica de Catalunya (UPC), Spain); Marc Ruiz (Universitat Politècnica de Catalunya, Spain); Gabriel Junyent (Universitat Politècnica de Catalunya, Spain)

11:30 - 13:00

S3: Flexible Grid Optical Networks

Chair: Gangxiang Shen (Soochow University, P.R. China)

11:30 *Switching Node Architectures in Flexible-grid Networks: a Performance Comparison (Invited)*

Arsalan Ahmad (Politecnico di Torino, Italy); Andrea Bianco (Politecnico di Torino, Italy); Edoardo Bonetto (Politecnico di Torino, France); Miquel Garrich (Centro de Pesquisa e Desenvolvimento em Telecomunicações, Brazil); Juliano Rodrigues Fernandes de Oliveira (CPqD Foundation & University of Sao Paulo, Brazil)

12:00 *The Spectrum Assignment (SA) Problem in Optical Networks: A Multiprocessor Scheduling Perspective*

Sahar Talebi (North Carolina State University, USA); Evripidis Bampis (LIP6, UPMC, France); Giorgio Lucarelli (LIP6, UPMC, France); Iyad Katib (King Abdulaziz University, Saudi Arabia); George N. Rouskas (North Carolina State University, USA)

12:20 *Dynamic Connection Establishment and Network Re-optimization in Flexible Optical Networks*

Polyzois Soumplis (University of Patras, Greece); Kostas Christodouloupoulos (University of Patras, Greece); Emmanouel Varvarigos (University of Patras & Computer Technology Institute, Greece)

12:40 *How Problematic is Spectrum Fragmentation in Operator's Gridless Network?*

Djamel Amar (Institut Mines-Télécom/Telecom SudParis & Orange Labs, France); Esther Le Rouzic (Orange Labs, France); Nicolas Brochier (Orange

Labs, France); Jean-Luc Auge (Orange Labs, France); Catherine Lepers (Institut Mines Telecom- Telecom SudParis, France); Nancy Perrot (Orange Labs, France); Sina Fazel (Institute Mines-Telecom / Telecom SudParis & CNRS Research Unit: SAMOVAR UMR5157, France)

14:30 - 16:00

S4: Data Centers

Chair: Ken-Ichi Sato (School of Engineering - Nagoya University, Japan)

14:30 *Accelerating Cast Traffic Delivery in Data Centers Leveraging Physical Layer Optics and SDN (Invited)*

Payman Samadi (Columbia University, USA); David Calhoun (Columbia University, USA); Howard Wang (Columbia University, USA); Keren Bergman (Columbia University, USA)

15:00 *Passive Optical Interconnects at Top of the Rack for Data Center Networks*

Yu Gong (Zhejiang University, P.R. China); Yang Lu (Zhejiang University, P.R. China); Xuezhong Hong (Zhejiang University, P.R. China); Sailing He (Zhejiang University, P.R. China); Jiajia Chen (KTH Royal Institute of Technology, Sweden)

15:20 *POPI: A Passive Optical Pod Interconnect for High Performance Data Centers*

Raluca Indre (Orange Labs, France); Jelena Pesic (INRIA, France); James Roberts (IRT SystemX & Inria, France)

15:40 *Modeling and Performance Analysis of OPS Data Center Network with Flow Management using Express Path*

Yue-Cai Huang (Osaka University, Japan); Yuki Yoshida (Osaka University, Japan); Ken'ichi Kitayama (Osaka University, Japan); Salah Ibrahim (NTT Photonics Laboratories, Japan); Ryo Takahashi (NTT, Japan); Atsushi Hiramatsu (NTT Advanced Technology Corporation, Japan)

16:30 - 18:30

S5: Energy Efficiency in Optical Networks

Chair: Marco Tacca (The University of Texas at Dallas, USA)

16:30 *Analysis of Energy Consumption in Carrier Networks (Invited)*

Christoph Lange (Deutsche Telekom AG, Germany); Dirk Kosiankowski (Deutsche Telekom AG, Germany); Dirk V Hugo (Telekom Innovation Laboratories & Deutsche Telekom AG, Germany); Andreas Gladisch (Deutsche Telekom AG & Innovation Labs, Germany)

17:00 *Minimizing Power Consumption in Mixed Line-Rate Translucent Optical Networks*

Konstantinos Manousakis (University of Cyprus & KIOS Research Center, Cyprus); Emmanouel Varvarigos (University of Patras & Computer Technology Institute, Greece); Georgios Ellinas (University of Cyprus, Cyprus)

17:20 *Stimulating green FTTH networks using home router virtualization (Invited)*

Julio Montalvo (Telefónica I+D, Spain); Koen Casier (University of Ghent, Belgium); Bart Lannoo (Ghent University - iMinds, Belgium)

17:50 *Green Backhauling for Rural Areas*

Matteo Fiorani (KTH Royal Institute of Technology, Sweden); Sibel Tombaz (KTH Royal Institute of Technology, Sweden); Paolo Monti (KTH Royal Institute of Technology, Sweden); Maurizio Casoni (University of Modena and Reggio Emilia, Italy); Lena Wosinska (KTH Royal Institute of Technology, Sweden)

18:10 *A Converged Network Architecture for Energy Efficient Mobile Cloud Computing*

Anna Tzanakaki (University of Bristol, United Kingdom); Markos Anastasopoulos (University of Bristol, United Kingdom); Giada Landi (Nextworks, Italy); Giacomo Bernini (Nextworks, Italy); Nicola Ciulli (Nextworks s.r.l., Italy); Shuping Peng (University of Bristol, United Kingdom); Bijan Rahimzadeh Rofoee (University of Bristol, United Kingdom); Yan Yan (University of Bristol, United Kingdom); Dimitra Simeonidou (University of Bristol, United Kingdom); Jordi Ferrer Riera (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain); Eduard Escalona (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain); Joan A. García-Espín (Fundació i2CAT, Internet i Innovació Digital a Catalunya & Technical University of Catalonia, Spain); Kostas Katsalis (University of Thessaly & CERTH, Greece); Thanasis Korakis (Polytechnic Institute of New York University, USA)

Wednesday, May 21

09:00 - 10:00

K3: Keynote

Chair: Paolo Monti (KTH Royal Institute of Technology, Sweden)

09:00 *Optical Communications in the context of H2020*

Ari Sorsaniemi (European Commission, Belgium)

10:00 - 11:00

S6: Techno-Economics in Optical Networks

Chair: Julio Montalvo (Telefónica I+D, Spain)

10:00 *Economic viability of high bit rate and high spectral efficiency transponders*

Diego Roccatto (Telecom Italia S.p.A., Italy); Marco Quagliotti (Telecom Italia, Italy); Marco Schiano (Telecom Italia, Italy)

10:20 *Radio-over-Fiber (RoF) for Mobile Backhauling: a technical and economic comparison between Analog and Digitized RoF*

Maurice Gagnaire (Telecom ParisTech (Ecole Nationale Supérieure des Télécommunications) & Institut Telecom, France); Ahmed Haddad (Telecom ParisTech, France)

10:40 *Modelling accurate planning of PON networks to reduce initial investment in rural areas*

Cezary Zukowski (Trinity College Dublin, Ireland); David B Payne (Trinity College Dublin, United Kingdom); Marco Ruffini (CTVR, Trinity College Dublin, Ireland)

11:30 - 13:00

S7: Optical Networks Systems and Architectures

Chair: Ken'ichi Kitayama (Osaka University, Japan)

11:30 *Implication of inter-node and intra-node contention in creating large throughput photonic networks (Invited)*

Ken-Ichi Sato (School of Engineering - Nagoya University, Japan)

12:00 *Efficient optical amplification in self-healing synthetic ROADMs*

Marija Furdek (KTH Royal Institute of Technology, Sweden & University of Zagreb, Croatia); Matija Džanko (University of Zagreb, Croatia); Patrik Glavica (University of Zagreb, Croatia); Lena Wosinska (KTH Royal Institute of Technology, Sweden); Branko Mikac (University of Zagreb, Croatia); Norberto Amaya (University of Bristol, United Kingdom); Georgios Zervas (University of Bristol, United Kingdom); Dimitra Simeonidou (University of Bristol, United Kingdom)

12:20 *Transponder architecture supporting multi-wavelength source*

Nicola Sambo (Scuola Superiore Sant'Anna, Italy); Antonio D'Errico (Ericsson, Italy); Claudio Porzi (Scuola Superiore S. Anna, Italy); Valeria Vercesi (Scuola Superiore Sant'Anna, Italy); Muhammad Imran (Scuola Superiore Sant'Anna, Italy); Filippo Cugini (CNIT, Italy); Antonella Bogoni (CNIT, Italy); Luca Poti (Consorzio Nazionale Interuniversitario per le Telecomunicazioni, Italy); Piero Castoldi (Scuola Superiore Sant'Anna, Italy)

12:40 *Performance Evaluation of Single Carrier 40-Gbit/s Downstream for Long-Reach Passive Optical Networks*

Xin Yin (Ghent University - IMEC, Belgium); Xing-Zhi Qiu (Ghent University, Belgium); Guy Torfs (Ghent University, Belgium); Christophe Van Praet (Ghent University, Belgium); Renato Vaernewyck (Ghent University, Belgium); Arno Vyncke (Ghent University, Belgium); Jochen Verbrugge (Ghent University, Belgium); Bart Moeneclaey (Ghent University, Belgium); Marco Ruffini (CTVR, Trinity College Dublin, Ireland); David B Payne (Trinity College Dublin, United Kingdom); Johan Bauwelinck (Ghent University, Belgium)

14:30 - 16:00

S8: Poster Session

Physical Layer Transmitter and Routing Optimization to Maximize the Traffic Throughput of a Nonlinear Optical Mesh Network

David Ives (University College London, United Kingdom); Polina Bayvel (University College London, United Kingdom); Seb Savory (University College London, United Kingdom)

Design of Grouped Routing Entity (GRE)-based Optical Networks with 100% Signal Quality Guarantee

Amornrat Jirattigalachote (Royal Institute of Technology (KTH), Sweden); Paolo Monti (KTH Royal Institute of Technology, Sweden); Lena Wosinska (KTH Royal Institute of Technology, Sweden); Yuki Taniguchi (Nagoya University, Japan); Toshinori Ban (Nagoya University, Japan); Hiroshi Hasegawa (Nagoya University, Japan); Ken-Ichi Sato (School of Engineering - Nagoya University, Japan)

Connection Management and Recovery Strategies under Epidemic Network Failures in Optical Transport Networks

Anna Manolova Fagertun (Technical University of Denmark, Denmark); Sarah Ruepp (Technical University of Denmark, Denmark)

Is It Worth Adapting Sub-Wavelength Switching Control Plane to Traffic Variations?

Ahmed Triki (Orange Labs, Networks and Carriers, France); Ramon Aparicio-Pardo (Telecom Bretagne & Institut Mines-Telecom, France); Paulette Gavignet (Orange Labs, Networks and Carriers, France); Esther Le Rouzic (Orange Labs, France); Bernard Arzur (Orange Labs, Networks and Carriers, France); Annie Gravey (Institut Mines Telecom - Telecom Bretagne, France)

Routing, Spectrum and Core Allocation in Flexgrid SDM Networks with Multi-core Fibers

Ajmal Muhammad (Linköping University, Sweden); Georgios Zervas (University of Bristol, United Kingdom); Dimitra Simeonidou (University of Bristol, United Kingdom); Robert Forchheimer (Linköping University, Sweden)

Network Reconfiguration Targeting Minimum Connection Disruption

Yutaka Takita (Fujitsu Limited, Japan); Qiong Zhang (Fujitsu Laboratories of America, USA); Tomohiro Hashiguchi (Fujitsu Laboratories Ltd., Japan); Kazuyuki Tajima (Fujitsu Labs. LTD., Japan); Toru Katagiri (Fujitsu Limited, Japan); Takao Naito (Fujitsu Labs. LTD., Japan); Xi Wang (Fujitsu Laboratories of America, USA); Inwoong Kim (Fujitsu Laboratories of America, Inc., USA); Paparao Palacharla (FLA, USA); Motoyoshi Sekiya (Fujitsu Laboratories of America, Inc., USA)

Distance-adaptive online RSA algorithms for heterogeneous flex-grid networks

Jose-Luis Izquierdo-Zaragoza (Universidad Politécnica de Cartagena, Spain); Pablo Pavon-Marino (Technical University of Cartagena, Spain); Maria Victoria Bueno (UPCT, Spain)

Dynamic ONU Grouping in Flexible Passive Optical Networks

Rentao Gu (Beijing University of Posts and Telecommunications & School of Information and Communication Engineering, P.R. China); Shizong Zhang (Beijing University of Posts and Telecommunications, P.R. China); Hui Li (Beijing University of Posts and Telecommunications, P.R. China); Ji Yuefeng (Beijing University of Posts and Telecommunications, P.R. China)

SONEP: A Software-Defined Optical Network Emulation Platform

Siamak Azodolmolky (GWDG, Germany); Martin Nordal Petersen (Technical University of Denmark, Denmark); Anna Manolova Fagertun (Technical University of Denmark, Denmark); Philipp Wieder (GWDG, Germany); Sarah Ruepp (Technical University of Denmark, Denmark); Ramin Yahyapour (GWDG - University Göttingen, Germany)

Q-based Provisioning for Multicast Connections in Translucent Metropolitan Area Networks

Tania Panayiotou (University of Cyprus, Cyprus); Georgios Ellinas (University of Cyprus, Cyprus); Neo Antoniadis (College of Staten Island, USA)

An Experimental Assessment of the BSOFDM-PON Architecture

Reginaldo Barbosa Nunes (IFES & UFES, Brazil); Marcelo Segatto (Federal University of Espírito Santo, Brazil); Jair Adriano Lima Silva (Federal University of Espírito Santo, Brazil); Diogo Vieira (UFES, Brazil)

Cable Length Minimization in Long-Reach-PON Planning for Sparsely Populated Areas

Saptadeep Pal (Indian Institute of Technology, India); Cezary Zukowski (Trinity College Dublin, Ireland); Avishek Nag (Trinity College Dublin, Ireland); David B Payne (Trinity College Dublin, United Kingdom); Marco Ruffini (CTVR, Trinity College Dublin, Ireland)

Improving Reliability in Multi-Layer Networks With Network Coding Protection

Wilson Ramirez (Technical University of Catalonia (UPC) & CRAAX, Networking and Information Technology Lab, Spain); Xavier Masip-Bruin (Universitat Politècnica de Catalunya & Advanced Network Architectures Lab (CRAAX), Spain); Eva Marín-Tordera (Technical University of Catalonia UPC, Spain); Marcelo Yannuzzi (Technical University of Catalonia (UPC) & Networking and Information Technology Lab, Spain); Muhammad Shuaib Siddiqui (Universitat Politècnica de Catalunya & CRAAX and NetIT Lab, Spain); Anny Martinez (Technical University of Catalunya (UPC), Spain); Victor López (Telefonica I+D, Spain)

Transmitter and Receiver Contention in Optical Flow Switching Networks

Yamini Jayabal (University of Texas at Dallas, USA); Joobum Kim (University of Texas at Dallas, USA); Miguel Razo (University of Texas at Dallas & Computer Science, USA); Marco Tacca (The University of Texas at Dallas, USA); Andrea Fumagalli (UTD, USA)

OPEX Simulation Study of PONs Based on Network Geometric and Markov Cost Models

Alvaro Fernandez (Norwegian University of Science and Technology, Norway & University of Valladolid, Spain); Norvald Stol (Norwegian University of Science and Technology, Norway)

16:30 - 18:00

S9: Network Virtualization

Chair: Anna Tzanakaki (University of Bristol, United Kingdom)

- 16:30 *Requirements and Design of flexible NFV network infrastructure node leveraging SDN/OpenFlow (Invited)*
Hitoshi Masutani (NTT Network Innovation Laboratories & NTT, Japan); Yoshihiro Nakajima (NTT Network Innovation Laboratories, Japan); Takeshi Kinoshita (NTT Network Innovation Laboratories, Japan); Tomoya Hibi (NTT Network Innovation Laboratories, Japan); Hirokazu Takahashi (NTT, Japan); Kazuaki Obana (NTT, Japan); Katsuhiko Shimano (NTT, Japan); Masaki Fukui (NTT Network Innovation Laboratories, Japan)
- 17:00 *Evaluation of Virtualization Models for Optical Connectivity Service Providers (Invited)*
Achim Autenrieth (ADVA Optical Networking, Germany); Thomas Szyrkowicz (ADVA Optical Networking & Technische Universität München, Germany); Klaus Grobe (ADVA, Germany); Jörg-Peter Elbers (ADVA AG Optical Networking, Germany); Pawel Kaczmarek (ADVA Optical Networking, Poland); Pawel Kostecki (ADVA Optical Networking, Poland); Wolfgang Kellerer (Technische Universität München, Germany)
- 17:30 *Scalable algorithms for QoS-aware virtual network mapping for cloud services*
Minh Bui (Concordia University, Canada); Brigitte Jaumard (Concordia University, Canada); Isil B. Barla Harter (Technical University of Munich & Nokia Siemens Networks Germany, Germany); Chris Develder (Ghent University - iMinds, Belgium)

Thursday, May 22

9:00 - 13:00

DISCUS Workshop

Chair: Lena Wosinska (KTH Royal Institute of Technology, Sweden)

- 9:00 *Introduction to the workshop*
Marco Ruffini (Trinity College Dublin, Ireland)
- 9:10 *Multi-layer Survivability*
Ori Gerstel (SDN Solutions)
- 9:35 *Optimization of the DISCUS LR-PON Access Network - How Many Metro-Core Nodes are Needed?*
Roland Wessály (atesio, Germany)
- 9:50 *Disaster Preparedness for Network and Information Infrastructures*
Biswanath Mukherjee (University of California Davis, USA)
- 10:15 *Attack-Aware Optical Network Planning*
Marija Furdek (KTH Royal Institute of Technology, Sweden)
- 10:30-11:00 Coffee break
- 11:00 *Impairment Aware Restoration in GMPLS Networks*
Marco Tacca (University of Texas at Dallas, USA)
- 11:25 *Sharing Protection Resources in Fibre Access Networks*
Marco Ruffini (Trinity College Dublin, Ireland)
- 11:40 *Planning and Optimization of Reliable Networks, Systems and Services*
Marc Ruiz (Universitat Politècnica de Catalunya, Spain)
- 12:05 *Efficient Resiliency Schemes for Next Generation Optical Access Networks*
Jiajia Chen (KTH Royal Institute of Technology, Sweden)
- 12:20 *Panel discussion - moderator David Payne (Trinity College Dublin, Ireland)*

14:30 - 16:30

S10: Optical Networks Design

Chair: Biswanath Mukherjee (University of California, Davis, USA)

- 14:30 *Broadening the scope of optical circuit networks (Invited)*
Malathi Veeraraghavan (University of Virginia, USA); Inder Monga (ESnet, USA)
- 15:00 *Cost-Effective Data Plane Solutions Based on OFDM Technology for Flexi-Grid Metro Networks Using Sliceable Bandwidth Variable Transponders (Invited)*
Michela Svaluto Moreolo (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain); Josep M. Fabrega (Centre Tecnològic de Telecomunicacions de Catalunya, Spain); Laia Nadal (CTTC, Spain); Francisco Javier Vilchez (Centre Tecnològic de Telecomunicacions de Catalunya, Spain); Victor López (Telefonica I+D, Spain); Juan P. Fernández-Palacios (Telefónica I+D, Spain)
- 15:30 *A Novel Flexible Grid/Semi-flexible Grid Optical Path Network Design Algorithm that Reserves Exclusive Frequency Slots for High Bitrate Signals*
Zhi-shu Shen (Nagoya University, Japan); Hiroshi Hasegawa (Nagoya University, Japan); Ken-Ichi Sato (School of Engineering - Nagoya University, Japan)
- 15:50 *Efficient Resource Allocation in Time-Domain Wavelength Interleaved Networks*
Annie Gravey (Institut Mines Telecom - Telecom Bretagne, France); Bogdan Uscumlic (Telecom Bretagne, France); Yvan Pointurier (Alcatel-Lucent Bell Labs, France); Ion Popescu (Telecom Bretagne, France); Philippe Gravey (Télécom Bretagne, France); Luay Alahdab (Institut Mines Telecom - Telecom Bretagne, France)
- 16:10 *All-optical Regenerator Placement in WSON*
Francesca Martinelli (CNIT, Italy); Nicola Andriolli (Scuola Superiore Sant'Anna, Italy); Piero Castoldi (Scuola Superiore Sant'Anna, Italy); Isabella Cerutti (Scuola Superiore Sant'Anna, Italy)