

Sunday, July 10

(16:00 – 18:00) **Registration at the conference venue**
 18:30 **Welcome Reception at Teatro Sociale**

Monday, July 11

8:00 **Registration**

9:00 **Opening Ceremony (9:00-9:30 Monday, July 11) Auditorium**

With contributions by: **Marian Marciniak** – *ICTON Organising Committee Chairman*, **Maurizio Ferrari** – *ICTON 2016 General Chairman*

PLENARY Chair: Eszter Udvary (9:30-11:00 Monday, July 11) Auditorium

9:30 **Mo.A.1** Performance and health monitoring of civil structures and infrastructure using long-gauge and distributed fiber optic sensors (*Invited*), **Branko Glišić**

10:00 **Mo.A.2** The influence of radiation trapping on spectra and measured lifetimes of $^4F_{9/2}$ - $^4I_{15/2}$, $^4I_{9/2}$ - $^4I_{15/2}$, $^4I_{11/2}$ - $^4I_{15/2}$ and $^4I_{13/2}$ - $^4I_{15/2}$ emission bands in GeGaS glasses doped with erbium (*Invited*), **Safa Kasap**, *Cyril Koughia*

10:30 **Mo.A.3** Integrated nanophotonics for optical computation in a chip (*Invited*), **Masaya Notomi**

Coffee break (11:00 – 11:30)

Track 1 – ROOM 3	Track 2 – ROOM 7	Track 3 – ROOM 6	Track 4 – ROOM 221	Track 5 – ROOM 223	Track 6 – ROOM 224
<p>ICTON I Chair: Norbert Hanik (11:30-13:25 Monday, July 11)</p> <p>11:30 Mo.B1.1 Pushing optical fiber communications to the Shannon limit: Advanced modulation formats and digital signal processing (<i>Invited</i>) D. Sadot</p> <p>11:50 Mo.B1.2 Multi-carrier high-speed optical communication systems supported by digital signal processing (<i>Invited</i>) A.N. Pinto, <i>S.B. Amado, C.S. Martins, S. Ziaie, N.J. Muga, F.P. Guiomar</i></p> <p>12:10 Mo.B1.3 Equalization-enhanced phase noise in coherent optical communications systems (<i>Invited</i>) S. Popov, <i>A. Kakkar, J.R. Navarro, Xiaodan Pang, O. Ozolins, R. Schatz, H. Louchet, G. Jacobsen</i></p> <p>12:30 Mo.B1.4 Overcoming performance limitations of digital back propagation due to polarization mode dispersion (<i>Invited</i>) K. Goroshko, <i>H. Louchet, A. Richter</i></p> <p>12:50 Mo.B1.5 Digital-analog hybrid SCM for fine-granularity circuit-switched optical networks (<i>Invited</i>) R. Hui, <i>K. Kaje, A. Fumagalli</i></p> <p>13:10 Mo.B1.6 Pilot tones based polarization rotation, frequency offset and phase estimation for polarization multiplexed offset-QAM multi-subcarrier coherent optical systems <i>S.M. Bilal, G. Bosco</i></p>	<p>ACCESS I Chair: Pandelis Kourtessis (11:30-13:10 Monday, July 11)</p> <p>11:30 Mo.B2.1 Multilevel direct DFB phase modulation in 6.25 GHz spectrally spaced UDWDM PONs (<i>Invited</i>) I.N. Cano, <i>J.C. Velásquez, V. Polo, J. Prat</i></p> <p>11:50 Mo.B2.2 Evaluating the energy efficiency of DWA algorithms in UDWDM-PONs (<i>Invited</i>) J. Segarra, <i>V. Sales, V. Polo, J. Prat</i></p> <p>12:10 Mo.B2.3 Using the Stokes space for equalization of polarization impairments in digital coherent optical receivers (<i>Invited</i>) N.J. Muga, <i>S. Ziaie, A. Shahpari, A.N. Pinto</i></p> <p>12:30 Mo.B2.4 Hitless wavelength assignment in filterless optical access networks (<i>Invited</i>) M. Presi, <i>M. Rannello, M. Artiglia, I. Tomkos, I. Cano, J. Prat, E. Ciaramella</i></p> <p>12:50 Mo.B2.5 4x10 Gb/s coherent WDM-PON system over 110 km of single mode fibre and with 55 dB ODN power budget (<i>Invited</i>) E. Ciaramella, <i>M. Rannello, F. Bottoni, M. Valvo, M. Artiglia, R. Corsini, M. Presi</i></p>	<p>DACINT I Chair: Sergei Popov (11:30-12:50 Monday, July 11)</p> <p>11:30 Mo.B3.1 Promise of hybrid plasmonics for optical interconnects (<i>Invited</i>) L. Wosinski, <i>X. Sun, L. Thylén</i></p> <p>11:50 Mo.B3.2 Counter direction jamming method for eavesdropping prevention in data center interconnects (<i>Invited</i>) D. Dahan <i>U. Mahlab</i></p> <p>12:10 Mo.B3.3 Optical interconnect and memory technologies for next generation computing (<i>Invited</i>) N. Pleros, <i>S. Pitris, C. Vagionas, P. Maniotis, T. Alexoudi, A. Miliou, G.T. Kanellos</i></p> <p>12:30 Mo.B3.4 Optical mode demultiplexing for data communication networks (<i>Invited</i>) P. Martelli, <i>P. Boffi, A. Fasiello, M. Martinelli</i></p>	<p>SWP I Chair: Marian Marciniak (11:30-12:50 Monday, July 11)</p> <p>11:30 Mo.B4.1 Photovoltaics from first principles (<i>Invited</i>) A. Quandt, <i>R. Warmbier</i></p> <p>Mo.B4.2 Plasmonics and solar cells: Recent advances (<i>Invited, Cancelled</i>) G.C. Righini, <i>F. Coccetti, F. Enrichi, M. Ferrari, A. Łukowiak, S. Pelli, A. Quandt, L.Z. Zur</i></p> <p>11:50 Mo.B4.3 Photovoltaic cells based on organic composites (<i>Invited</i>) M. Pokladko-Kowar, <i>A. Danel</i></p> <p>12:10 Mo.B4.4 Optical optimization of organic solar cells based on azaheterocyclic group (<i>Invited</i>) E. Gondek</p> <p>12:30 Mo.B4.5 Conductive polymer nanocomposites for transparent circuits and thin films (<i>Invited</i>) <i>C. Tematio, N. Fosso, J. Krähenbühl, S. Schintke</i></p>	<p>MWP Chair: Robert Minasian & Eszter Udvary (11:30-13:05 Monday, July 11)</p> <p>11:30 Mo.B5.1 Microwave photonic processing of high-speed microwave signals (<i>Invited</i>) R. Minasian, <i>Xiaoke Yi, Liwei Li</i></p> <p>11:50 Mo.B5.2 Multi-cavity microwave photonics devices built upon multicore fibers (<i>Invited</i>) I. Gasulla, <i>D. Barrera, J. Hervás, S. García S. Sales</i></p> <p>12:10 Mo.B5.3 How electrical modelling of semiconductor lasers can help to analyse complex photonic systems (<i>Invited</i>) A-L. Billabert, <i>S. Faci, W. Kassa, A. Kabalan, Y. Paugam, C. Algani</i></p> <p>12:30 Mo.B5.4 Optoelectronic oscillator based on class AB photonic link (<i>Invited</i>) <i>G. Charalambous, G.K.M. Hasanuzzaman, A. Perentos, S. Iezekiel</i></p> <p>12:50 Mo.B5.5 Real-time microwave photonic technique for low-coherence interferometry applications <i>J. Benítez, M. Bolea, J. Mora, J. Capmany</i></p>	<p>ESPC I Chair: Kestutis Staliunas (11:30-12:50 Monday, July 11)</p> <p>11:30 Mo.B6.1 Recent advances in the development of high performance hollow-core photonic bandgap fibres (<i>Invited</i>) Yong Chen</p> <p>11:50 Mo.B6.2 Exploring a new transmission window for telecommunications in the 2 μm waveband (<i>Invited</i>) N. Kavanagh, <i>M. Sadiq, K. Shortiss, H. Zhang, K. Thomas, A. Gocalinska, Y. Zhao, E. Pelucchi, P. O'Brien, F.H. Peters, B. Corbett, F.C. Garcia Gunning</i></p> <p>Mo.B6.3 Dispersion profile in ANDi photonic crystal fibers for flat octave spanning pulse-preserving supercontinuum (<i>Invited, Cancelled</i>) I.A. Sukhoivanov, <i>O.V. Shulika, S.O. Iakushev</i></p> <p>12:10 Mo.B6.4 Understanding the influence of the structured cladding on the reflectivity of femtosecond laser written gratings in photonic crystal fibers (<i>Invited</i>) T. Baghdasaryan, <i>T. Geernaert, H. Thienpont, F. Berghmans</i></p> <p>12:30 Mo.B6.5 Coupling between Fano and Bragg bands in photonic band structure of two-dimensional metallic photonic structures (<i>Invited</i>) <i>P. Markoš, V. Kuzmiak</i></p>
Lunch break (13:25-15:00)					
<p>ICTON II Chair: Yaping Zhang (15:00-16:20 Monday, July 11)</p> <p>15:00 Mo.C1.1 Space division multiplexing (SDM) transmission and related technologies (<i>Invited</i>) N. Wada, <i>B.J. Puttnam, R.S. Luis, J. Sakaguchi, W. Klaus, J.M.D. Mendinueta, Y. Awaji</i></p> <p>15:20 Mo.C1.2 Ultra-dense space division multiplexing technologies towards multi-petabit/s optical transmission (<i>Invited</i>) M. Suzuki, <i>D. Soma, K. Igarashi, Y. Wakayama, K. Takeshima, Y. Kawaguchi, N. Yoshikane, T. Tsuritani, I. Morita</i></p> <p>15:40 Mo.C1.3 Spatial modes-based physical-layer security (<i>Invited</i>) I.B. Djordjevic, <i>Xiaole Sun</i></p> <p>16:00 Mo.C1.4 Towards multidimensional multiplexing in multicore fiber optical data links (<i>Invited</i>) R. Llorente, <i>A. Macho, D. Garcia-Rodriguez, A. Zainullin, M. Morant, J.L. Corral</i></p>	<p>OWW I Chair: Milorad Cvijetic (14:40-16:10 Monday, July 11)</p> <p>14:40 Mo.C2.1 High-aggregate-capacity guided-wave visible light communication links (<i>Invited</i>) N. Bamiedakis, <i>X. Li, R.V. Penty, I.H. White</i></p> <p>15:00 Mo.C2.2 New type of VLC communication transmitter based on optical fibers (<i>Invited</i>) J. Latal, <i>J. Vitasek, L. Hajek, A. Vanderka, O. Zboril, D. Pudis, P. Koudelka, V. Vasinek</i></p> <p>15:20 Mo.C2.3 Non-Hermitian symmetry OFDM for indoor space division multiplexing visible light communications (<i>Invited</i>) Wen-De Zhong, <i>Chen Chen, Dehao Wu</i></p> <p>15:40 Mo.C2.4 Adaptive receiver for visible light communication system <i>A.A. Al-Hameed, A.T. Hussein, M.T. Alresheedi, J.M.H. Elmirghani</i></p> <p>15:55 Mo.C2.5 Hybrid diffuse IR transmitter supporting VLC systems with imaging receivers <i>M.T. Alresheedi, A.T. Hussein, J.M.H. Elmirghani</i></p>	<p>DACINT II Chair: Lech Wosinski (14:20-15:40 Monday, July 11)</p> <p>14:20 Mo.C3.1 Single mode optical interconnects for future data centers (<i>Invited</i>) K. Vyrsokinos, <i>M. Moralis-Pegios, C. Vagionas, A. Brimont, A. Zanzi, P. Sanchis, J. Marti, J. Kraft, K. Rohrercher, S. Dorrestein, M. Bogdan, N. Pleros</i></p> <p>14:40 Mo.C3.2 Silicon photonics for switching in next generation data centers (<i>Invited</i>) L. Pavesi</p> <p>15:00 Mo.C3.3 Low power consumption receiver on silicon (<i>Invited</i>) <i>L. Virost, D. Marris-Morini, D. Benedikovic, C. Alonso-Ramos, J-M. Hartmann, E. Cassan, P. Crozat X. Le Roux, C. Baudot, F. Boeuf, J-M. Fédéli, L. Vivien</i></p> <p>15:20 Mo.C3.4 Machine learning based adaptive flow classification for optically interconnected data centers (<i>Invited</i>) <i>N. Viljoen, H. Rastegarfar, Mingwei Yang, J. Wissinger, M. Glick</i></p>	<p>SWP II Chair: Piotr Nyga (14:40-16:20 Monday, July 11)</p> <p>14:40 Mo.C4.1 Dilute III-PBi and III-SbBi for IR applications (<i>Invited</i>) Shumin Wang</p> <p>15:00 Mo.C4.2 Electrochemical optical actuators: Controlling the light through ions (<i>Invited</i>) F. Morichetti, <i>S. Zannotto, A. Blancato, F. Berkemeier, M. Muñoz Castro, A. Buchheit, H-D. Wiemhöfer, G. Schmitz, C. Klitis, M. Sorel, A. Melloni</i></p> <p>15:20 Mo.C4.3 Methods of creation and optimization of anisotropic liquid-crystal photonics structures (<i>Invited</i>) I.A. Goncharenko, <i>O.S. Kabanova, E.A. Melnikova, O.G. Romanov, I.I. Rushnova, A.L. Tolstik</i></p> <p>15:40 Mo.C4.4 Optimizing the linear range of FET-based THz detectors (<i>Invited</i>) F. Bigourdan, <i>M.R. Razafindrakoto, D. Felbacq</i></p> <p>16:00 Mo.C4.5 Charge-carrier/exciton transfer between two quasi-zero-dimensional nanostructures (<i>Invited</i>) K. Král, <i>M. Menšík</i></p>	<p>NAON I Chair: Tomasz Czystanowski (14:40-16:20 Monday, July 11)</p> <p>14:40 Mo.C5.1 Timing jitter and repetition rate control of a passively mode-locked semiconductor laser by dual optical feedback (<i>Invited</i>) <i>O. Nikiforov, L. Jaurigue, L. Drzewietzki, K. Lüdge, S. Breuer</i></p> <p>15:00 Mo.C5.2 Evolution of very small lasers (<i>Invited</i>) Yong-Hee Lee, <i>Hoon Jang</i></p> <p>15:20 Mo.C5.3 High speed modulation of InP membrane DFB laser diodes (<i>Invited</i>) G. Morthier, <i>A. Abbasi, M. Shahin, J. Verbist, X. Yin, J. Bauwelinck, G. Roelkens</i></p> <p>15:40 Mo.C5.4 Dilute bismide alloys grown on GaAs and InP substrates for improved near- and mid-infrared semiconductor lasers (<i>Invited</i>) <i>C.A. Broderick, Wanshu Xiong, S.J. Sweeney, E.P. O'Reilly, J.M. Rorison</i></p> <p>16:00 Mo.C5.5 Optical injection in semiconductor lasers: Physics and applications (<i>Invited</i>) A. Bogris, <i>D. Syridis, A. Fragkos, T. Nikas, H. Simos, W. Elsässer</i></p>	<p>ESPC II Chair: Lucio Claudio Andreani (14:40-16:35 Monday, July 11)</p> <p>14:40 Mo.C6.1 Polarisation singularities in photonic crystal waveguides: How photonic wheels stop turning when light slows down (<i>Invited</i>) D.M. Beggs, <i>B. Lang, A.B. Young, R. Oulton</i></p> <p>15:00 Mo.C6.2 Slow light enabled wavelength demultiplexing (<i>Invited</i>) <i>Z. Hayran, M. Turdudov, M. Botey, R. Herrero, K. Staliunas, H. Kurt</i></p> <p>15:20 Mo.C6.3 Analysis of the Brownian motion of singly trapped spheres in hollow photonic crystal cavities (<i>Invited</i>) <i>M. Tonin, F. Mor, S. Jeney, L. Forró, R. Houdré</i></p> <p>15:40 Mo.C6.4 Superconducting photonic crystals with defect structure (<i>Invited</i>) I. Lyubchanskii, <i>Y. Dadoenkova, N. Dadoenkova, A. Zabolotin, M. Krawczyk</i></p> <p>16:00 Mo.C6.5 Vanishing gaps in photonic crystals and other periodic potentials (<i>Invited</i>) <i>S. Caffrey, G.V. Morozov, D. Macbeath, D.W.L. Sprung</i></p> <p>16:20 Mo.C6.6 Polarization independent focusing of light by gradually modulated annular photonic structure <i>B. Tellioglu, E. Bor, M. Turdudov, H. Kurt</i></p>
Coffee break (16:20-16:50)					
Coffee break (16:10-16:40)		Coffee break (15:40-16:10)		Coffee break (16:20-16:50)	
Coffee break (16:20-16:50)					
Coffee break (16:35-17:00)					

<p>ICTON III <i>Chair: Jarmila Müllerová</i> (16:50-18:30 Monday, July 11)</p> <p>16:50 Mo.D1.1 On the group delay statistics of few-mode fibres with intermediate linear mode coupling <i>(Invited)</i> F.M. Ferreira, <i>N. Mac Suibhne</i>, <i>C. Sánchez</i>, <i>M. Sorokina</i>, <i>S. Sygletos</i>, <i>A. Ellis</i></p> <p>17:10 Mo.D1.2 Accurate modal characterization of optical fibers using acousto-optics <i>(Invited)</i> <i>E. Alcusa-Sáez</i>, <i>A. Díez</i>, M.V. Andrés</p> <p>17:30 Mo.D1.3 Long period gratings in multicore fibers: Components for space division multiplexing systems <i>(Invited)</i> <i>A.M. Rocha</i>, <i>T. Almeida</i>, <i>M. Facão</i>, R.N. Nogueira</p> <p>17:50 Mo.D1.4 The role of distributed Raman amplification in the times of the "capacity crunch" <i>(Invited)</i> J.D. Ania-Castañón, <i>P. Rosa</i>, <i>G. Rizzelli</i>, <i>F. Gallazzi</i>, <i>J. Nuño</i>, <i>P. Corredera</i></p> <p>18:10 Mo.D1.5 Higher order mode optical fiber Raman amplifiers <i>(Invited)</i> K. Rottwitz, <i>S.M.M. Friis</i>, <i>M.A. Usuga Castaneda</i>, <i>E.N. Christensen</i>, <i>J.G. Kofoed</i></p> <p>19:00 Social event at Gallerie Piedicastello Tuesday, July 12</p> <p>FOCUS <i>Chair: Prince Anandarajah</i> (9:00-11:00 Tuesday, July 12) Track 7 – ROOM 227</p> <p>9:00 Tu.A7.1 Numerical simulation and analysis of single section quantum dot lasers for optical comb generation <i>(Invited)</i>, M. Gioannini, <i>P. Bardella</i>, <i>L. Columbo</i>, <i>I. Montrosset</i></p> <p>9:20 Tu.A7.2 Investigation of novel materials for future communication needs: Quantum dots and highly-mismatched alloys <i>(Invited)</i>, J.M. Rorison, <i>C. Broderick</i>, <i>W. Xiong</i>, <i>Q. Wang</i></p> <p>9:40 Tu.A7.3 Pulse train stability of multi-gigahertz passively mode-locked semiconductor lasers <i>(Invited)</i>, <i>O. Nikiforov</i>, <i>L. Jaurigue</i>, <i>C. Weber</i>, <i>L. Drzewietzki</i>, <i>K. Lüdge</i>, S. Breuer</p> <p>10:00 Tu.A7.4 On-chip multi-wavelength laser sources fabricated using generic photonic integration technology <i>(Invited)</i>, S. Latkowski, <i>K. Williams</i>, <i>E. Bente</i></p> <p>10:20 Tu.A7.5 Terahertz wireless communications using photonic and electronic devices <i>(Invited)</i>, G. Ducournau, <i>P. Szriftgiser</i>, <i>F. Pavanello</i>, <i>P. Latzel</i>, <i>M. Zaknour</i>, <i>E. Peytavit</i>, <i>D. Bacquet</i>, <i>J-F. Lampin</i></p> <p>10:40 Tu.A7.6 Nanoseconds wavelength and space optical cross-connect switches for high performance optical network <i>(Invited)</i>, N. Calabretta, <i>Wang Miao</i>, <i>K. Williams</i></p>	<p>OWW II <i>Chair: Goran Djordjevic</i> (16:40-18:10 Monday, July 11)</p> <p>16:40 Mo.D2.1 Cognitive optical wireless network <i>(Invited)</i> V.W.S. Chan</p> <p>17:00 Mo.D2.2 Continuous tracking in free space optical balloon mesh networks <i>(Invited)</i> <i>M.B. Awan</i>, S. Mohan</p> <p>17:20 Mo.D2.3 Synchronization and channel estimation for optical block-transmission systems with IM/DD <i>(Invited)</i> M. Wolf, <i>S.A. Cheema</i>, <i>M. Haardt</i></p> <p>17:40 Mo.D2.4 Performance investigation of OCT precoding for MIMO-OFDM based indoor visible light communications <i>Yang Hong</i>, <i>Lian-Kuan Chen</i></p> <p>17:55 Mo.D2.5 Reduction of inter-cell interference in asynchronous multi-cellular VLC by using OFDMA-based cell partitioning <i>Sun-Young Jung</i>, <i>Do-Hoon Kwon</i>, <i>Se-Hoon Yang</i>, <i>Sang-Kook Han</i></p>	<p>FiWiN5G I <i>Chair: Nikos Pleros</i> (16:10-17:45 Monday, July 11)</p> <p>16:10 Mo.D3.1 Photonics-based transceivers for fiber-wireless networks <i>(Invited)</i> P. Ghelfi, <i>F. Laghezza</i>, <i>F. Scotti</i>, <i>G. Serafino</i>, <i>C. Porzi</i>, <i>A. Bogoni</i></p> <p>16:30 Mo.D3.2 The new flexible mobile fronthaul: Digital or analog, or both? <i>(Invited)</i> N.J. Gomes, <i>P. Assimakopoulos</i>, <i>M.K. Al-Hares</i>, <i>U. Habib</i>, <i>S. Noor</i></p> <p>16:50 Mo.D3.3 5G radio over fiber for small-cells <i>(Invited)</i> F. Ponzini, <i>L. Giorgi</i></p> <p>17:10 Mo.D3.4 The effect of different queuing regimes on a switched Ethernet fronthaul <i>M.K. Al-Hares</i>, <i>P. Assimakopoulos</i>, <i>S. Hill</i>, <i>N.J. Gomes</i></p> <p>17:25 We.C2.1 Requirements for 5G fronthaul <i>(Invited, moved from session We.C2)</i> L. Valcarenghi, <i>K. Kondepu</i>, <i>F. Giannone</i>, <i>P. Castoldi</i></p>	<p>SWP III <i>Chair: Oksana Shramkova</i> (16:50-18:30 Monday, July 11)</p> <p>16:50 Mo.D4.1 Optical sensing from plasmonic metamaterials <i>(Invited)</i> <i>I. Mbonson</i>, <i>S. Tabor</i>, <i>S.G. McMeekin</i>, <i>B. Lahiri</i>, <i>R.M. De la Rue</i>, N.P. Johnson</p> <p>17:10 Mo.D4.2 New microphotonic resonant devices for label-free biosensing <i>(Invited)</i> <i>C. Ciminelli</i>, <i>F. Dell'Olío</i>, <i>D. Conteduca</i>, <i>F. Innone</i>, <i>T. Tatoli</i>, M.N. Armenise</p> <p>17:30 Mo.D4.3 Technology of hybrid plasmonic devices for optical bio-sensing <i>(Invited)</i> L. Wosinski, <i>Xu Sun</i>, <i>L. Thylén</i></p> <p>17:50 Mo.D4.4 Nonlinear optical effects used for investigations on biological samples at micro and nanoscale <i>(Invited)</i> G.A. Stanciu, <i>D.E. Tranca</i>, <i>S.G. Stanciu</i>, <i>C. Stoichita</i>, <i>A. Toma</i></p> <p>18:10 Mo.D4.5 Influence of laser beam quality on modal selection in tapered optical fibers for multipoint optogenetic control of neural activity <i>(Invited)</i> <i>A. Della Patria</i>, <i>M. Pisanello</i>, <i>L. Sileo</i>, <i>M. De Vittorio</i>, F. Pisanello</p>	<p>NAON II <i>Chair: Judy Rorison</i> (16:50-18:25 Monday, July 11)</p> <p>16:50 Mo.D5.1 Monolithic high contrast grating VCSELs: Concept and prospects <i>(Invited)</i> <i>M. GebSKI</i>, <i>M. Marciniak</i>, <i>M. Dems</i>, <i>J.A. Lott</i>, T. Czeszanowski</p> <p>17:10 Mo.D5.2 Performance characteristics of GaSb-based TJ-VCSELs with emission wavelength above 2.6 μm <i>(Invited)</i> Ł. Piskorski, <i>J. Walczak</i>, <i>M. Marciniak</i>, <i>P. Beling</i>, <i>M. Dems</i>, <i>W. Nakwaski</i></p> <p>17:30 Mo.D5.3 Single-mode 1.5-μm VCSELs with small-signal bandwidth beyond 20 GHz <i>(Invited)</i> S. Spiga, <i>A. Andrejew</i>, <i>G. Boehm</i>, <i>M-C. Amann</i></p> <p>17:50 Mo.D5.4 Electro-optical modulation processes in Si-MOS LEDs operating in the avalanche light emission mode <i>(Invited)</i> Kaikai Xu</p> <p>18:10 Mo.D5.5 Characterization and equalization of nonlinearities in directly modulated resonant cavity light-emitting diodes <i>M. Schüppert</i>, <i>C-A. Bunge</i></p>	<p>CTS I <i>Chair: Kira Kastell</i> (17:00-18:40 Monday, July 11)</p> <p>17:00 Mo.D6.1 Replacement of the controller area network (CAN) protocol for future automotive bus system solutions by substitution via optical networks <i>(Invited)</i> <i>D. Kraus</i>, E. Leitgeb, <i>T. Plank</i>, <i>M. Löschnigg</i></p> <p>17:20 Mo.D6.2 Optical backhaul network planning for DSRC-based public intelligent transportation system: A case study <i>(Invited)</i> <i>E. Grigoreva</i>, C. Mas Machuca, <i>W. Kellerer</i></p> <p>17:40 Mo.D6.3 Tip timing measurements for structural health monitoring in the first stage of the compressor of an aircraft engine <i>(Invited)</i> I. García, <i>R. Przysowa</i>, <i>J. Zubia</i>, <i>J. Villatoro</i>, <i>J. Mateo</i>, <i>C. Vázquez</i></p> <p>18:00 Mo.D6.4 Research of opportunities of short-range radar to prevent flight accidents <i>(Invited)</i> <i>A. Ananenkov</i>, <i>Y. Likharev</i>, V. Rastorguev, <i>P. Sokolov</i></p> <p>18:20 Mo.D6.5 Experimental characterization of transmission properties in multi-core plastic optical fibers <i>(Invited)</i> A. López, <i>S. Ramón</i>, <i>M. Chueca</i>, <i>M.A. Losada</i>, <i>F.A. Domínguez-Chapman</i>, <i>J. Mateo</i></p>
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Track 1 – ROOM 3	Track 2 – ROOM 7	Track 3 – ROOM 6	Track 4 – ROOM 221	Track 5 – ROOM 223	Track 6 – ROOM 224
<p>ICTON IV <i>Chair: Masatoshi Suzuki</i> (8:30-10:20 Tuesday, July 12)</p> <p>8:30 Tu.A1.1 Multi-dimensional demappers for optical fiber systems with soft-decision forward error correction <i>(Invited)</i> <i>T. Fehenberger</i> N. Hanik</p> <p>8:50 Tu.A1.2 Layered LDPC decoding for turbo-differential decoding in presence of cycle slips in optical communications <i>(Invited)</i> C. Cabiroi, <i>W. Sauer-Greff</i>, <i>R. Urbansky</i></p> <p>9:10 Tu.A1.3 Hammerstein-based equalizer for nonlinear compensation in coherent OFDM long-reach PONs <i>(Invited)</i> <i>J. Torres-Zugaide</i>, <i>I. Aldaya</i>, <i>G. Campuzano</i>, G. Castanon</p> <p>9:30 Tu.A1.4 Multidimensional OFDM for programmable adaptive optical transceivers <i>(Invited)</i> J.M. Fabrega <i>M. Svaluto Moreolo</i></p> <p>9:50 Tu.A1.5 Phase noise impact on directly detected optical OFDM transmission in uncompensated links <i>S. Mandelli</i>, <i>A. Gatto</i>, <i>M. Magarini</i>, <i>P. Boffi</i>, <i>P. Martelli</i>, <i>S. Pecorino</i>, <i>A. Spalvieri</i></p> <p>10:05 Tu.A1.6 Bit loading-based irregular LDPC coded-modulation for high-speed optical communications <i>Ding Zou</i>, <i>I.B. Djordjevic</i></p>	<p>OWW III <i>Chair: Wen-De Zhong</i> (8:30-10:00 Tuesday, July 12)</p> <p>8:30 Tu.A2.1 Approaching terabit serial optical transmission over strong atmospheric turbulence channels <i>(Invited)</i> <i>Zhen Qu</i>, I.B. Djordjevic</p> <p>8:50 Tu.A2.2 Design of high speed free space optical channels <i>(Invited)</i> M. Cvijetic</p> <p>9:10 Tu.A2.3 Moderate-to-strong turbulence generation in a laboratory indoor free space optics link and error mitigation via RaptorQ codes <i>(Invited)</i> <i>R. Pernice</i>, <i>A. Andò</i>, <i>A. Parisi</i>, <i>A.C. Cino</i>, A.C. Busacca</p> <p>9:30 Tu.A2.4 Performance analysis of a hybrid QAM-MPPM technique under gamma-gamma turbulent channels <i>H.S. Khallaf</i>, <i>T. Ismail</i>, <i>H.M.H. Shalaby</i>, <i>S. Sampei</i></p> <p>9:45 Tu.A2.5 Performance analysis of SIM-DPSK FSO system over lognormal fading with pointing errors <i>T. Ismail</i>, <i>E. Leitgeb</i></p>	<p>WAOR I <i>Chair: Xavier Hesselbach</i> (8:30-10:10 Tuesday, July 12)</p> <p>8:30 Tu.A3.1 Optical layer-driven network restoration and redesign for improved fast reroute reliability <i>(Invited)</i> <i>Zhen Lu</i>, <i>Y. Jayabal</i>, <i>M. Razo</i>, <i>M. Tacca</i>, A. Fumagalli, <i>G.M. Galimberti</i>, <i>G. Martinelli</i>, <i>G. Swallow</i></p> <p>8:50 Tu.A3.2 State-dependent connection admission control and routing and spectrum assignment in multirate flex-grid optical networks <i>(Invited)</i> R. Romero Reyes, <i>T. Bauschert</i></p> <p>9:10 Tu.A3.3 Spectrally efficient operation of mixed fixed/flexible-grid optical networks with sub-band virtual concatenation <i>(Invited)</i> <i>Ya Zhang</i>, <i>Longfei Li</i>, <i>Yongcheng Li</i>, <i>S.K. Bose</i>, Gangxiang Shen</p> <p>9:30 Tu.A3.4 Modulation format-aware restoration and re-optimization in flexgrid optical networks <i>(Invited)</i> <i>L. Gifre</i>, <i>M. Ruiz</i>, L. Velasco</p> <p>9:50 Tu.A3.5 Indirect crosstalk-aware routing and wavelength assignment in transparent optical networks with the use of generic algorithms <i>(Invited)</i> <i>D. Monoyios</i>, <i>K. Manousakis</i>, <i>C. Christodoulou</i>, <i>A. Hadjiantonis</i>, K. Vlachos, <i>G. Ellinas</i></p>	<p>SWP IV <i>Chair: Brana Jelenković</i> (8:30-10:25 Tuesday, July 12)</p> <p>8:30 Tu.A4.1 Surface enhanced Raman scattering in surgery and forensics <i>(Invited)</i> <i>C. Micsa</i>, <i>C. Rizea</i>, <i>M.I. Rusu</i>, <i>N.D. Becherescu-Barbu</i>, <i>R. Munteanu</i>, <i>M.V. Udrea</i>, <i>B. Chircuta</i>, <i>A. Parau</i>, <i>A. Tonetto</i>, <i>R. Notonier</i>, <i>I.A. Birtoiu</i>, C.E.A. Grigorescu</p> <p>8:50 Tu.A4.2 Pulse and multifrequency near-field subsurface diagnostics <i>(Invited)</i> K.P. Gaikovich</p> <p>9:10 Tu.A4.3 Optical single pixel detection for compressive sensing with unitary circulant matrices <i>(Invited)</i> <i>D. Pastor-Calle</i>, <i>A. Pastuszczak</i>, <i>M. Mikołajczyk</i>, R. Kotyński</p> <p>9:30 Tu.A4.4 Design of silicon ring resonators for CO₂ detection <i>(Invited)</i> Yaping Zhang, <i>Siyu Zhao</i>, <i>Beinuo Lu</i></p> <p>9:50 Tu.A4.5 Ultrasensitive sensors based on specialty optical fibres <i>(Invited)</i> <i>J. Villatoro</i>, J. Zubia</p> <p>10:10 Tu.A4.6 Modified noiselet transform and its application to compressive sensing with optical single pixel detectors <i>A. Pastuszczak</i>, <i>B. Szczygieł</i>, <i>M. Mikołajczyk</i>, <i>R. Kotyński</i></p>	<p>NAON III <i>Chair: Adonis Bogris</i> (8:30-9:50 Tuesday, July 12)</p> <p>8:30 Tu.A5.1 Improving SOA direct modulation capability with optical filtering <i>(Invited)</i> <i>Z.V. Rizou</i>, K.E. Zoiros, <i>P. Morel</i></p> <p>8:50 Tu.A5.2 40 GBd D(Q)PSK and OOK amplification using O-band quantum-dot semiconductor optical amplifiers <i>(Invited)</i> H. Schmeckebeier, <i>A. Zeghuzi</i>, <i>D. Arsenijević</i>, <i>M. Stubenrauch</i>, <i>C. Meuer</i>, <i>C. Schubert</i>, <i>C.A. Bunge</i>, <i>D. Bimberg</i></p> <p>9:10 Tu.A5.3 All-optical memory based on quantum dot semiconductor optical amplifiers (QD-SOAs) for advanced modulation formats <i>(Invited)</i> Y. Ben Ezra, <i>B.I. Lembrikov</i></p> <p>9:30 Tu.A5.4 Stabilization of semiconductor amplifiers with large linewidth enhancement factors <i>(Invited)</i> <i>S. Kumar</i>, <i>M. Botey</i>, R. Herrero, <i>K. Staliunas</i></p>	<p>CTS II <i>Chair: Vladimir Rastorguev</i> (8:30-10:05 Tuesday, July 12)</p> <p>8:30 Tu.A6.1 Analysis of planning constraints for wireless access in vehicular environments with respect to different mobility and propagation models <i>(Invited)</i> K. Kastell</p> <p>8:50 Tu.A6.2 Radio-over-fibre based high-speed millimetre-wave backhaul system for high-speed trains <i>(Invited)</i> T. Kawanishi, <i>A. Kanno</i>, <i>P.T. Dat</i>, <i>N. Yamamoto</i></p> <p>9:10 Tu.A6.3 Coordination and agreement among traffic signal controllers in urban areas <i>(Invited)</i> <i>M-D. Cano</i>, <i>R. Sanchez-Iborra</i>, <i>F. Garcia-Sanchez</i>, <i>A-J. Garcia-Sanchez</i>, J. Garcia-Haro</p> <p>9:30 Tu.A6.4 On-board computer network for information support of unmanned mobile vehicles control systems <i>(Invited)</i> S.M. Sokolov, <i>A.A. Boguslavsky</i></p> <p>9:50 Tu.A6.5 Access and resource reservation in vehicular visible light communication networks <i>M. Garai</i>, <i>M. Siliti</i>, <i>N. Boudriga</i></p>
Coffee break (10:20-10:50)	Coffee break (10:00-10:30)	Coffee break (10:10-10:40)	Coffee break (10:25-10:50)	Coffee break (9:50-10:20)	Coffee break (10:05-10:30)
<p>ICTON V <i>Chair: Stefan Wabnitz</i> (10:50-12:30 Tuesday, July 12)</p> <p>10:50 Tu.B1.1 Bright and dark vector rogue waves <i>(Tutorial)</i> S.V. Sergeyev, <i>Chengbo Mou</i>, <i>S. Kolpakov</i>, <i>V. Kalashnikov</i></p>	<p>OWW IV <i>Chair: Mike Wolf</i> (10:30-12:00 Tuesday, July 12)</p> <p>10:30 Tu.B2.1 BER analysis of WiMAX on FSO <i>(Invited)</i> G.T. Djordjevic, <i>I.B. Djordjevic</i></p>	<p>WAOR II <i>Chair: Andrea Fumagalli</i> (10:40-12:20 Tuesday, July 12)</p> <p>10:40 Tu.B3.1 Scalable elastic optical path networking models <i>(Invited)</i> B. Jaumard, <i>M. Daryalal</i></p>	<p>SWP V <i>Chair: Satoshi Ishii</i> (10:50-12:30 Tuesday, July 12)</p> <p>10:50 Tu.B4.1 Graphene and polarisable nanoparticles: Looking good together? <i>(Invited)</i> M.I. Vasilevskiy, <i>J.E. Santos</i>, <i>R.M. Pereira</i>, <i>Yu.V. Bludov</i>, <i>F. Vaz</i>, <i>N.M.R. Peres</i></p>	<p>NAON IV <i>Chair: Stefan Breuer</i> (10:20-12:00 Tuesday, July 12)</p> <p>10:20 Tu.B5.1 Silicon photonics based on Ge/SiGe quantum well structures <i>(Invited)</i> D. Marris-Morini, <i>V. Vakarin</i>, <i>P. Chaisakul</i>, <i>J. Frigerio</i>, <i>M. Rahman</i>, <i>J.M. Ramirez</i>, <i>M-S. Rouified</i>, <i>D. Chrastina</i>, <i>X. Le Roux</i>, <i>G. Isella</i>, <i>L. Vivien</i></p>	<p>ESPC III <i>Chair: Martina Gerken</i> (10:30-12:20 Tuesday, July 12)</p> <p>10:30 Tu.B6.1 Hybrid photonic crystal lasers <i>(Invited)</i> <i>A.A. Liles</i>, <i>A.P. BakoZ</i>, <i>A.A. Gonzalez</i>, <i>T. Habruseva</i>, <i>S. Persheyev</i>, <i>G. Huyet</i>, <i>S.P. Hegarty</i>, L. O'Faolain</p>

<p>ICTON VI Chair: Miguel Andrés (14:00-15:55 Tuesday, July 12)</p>	<p>ACCESS II Chair: Ernesto Ciaramella (13:30-15:20 Tuesday, July 12)</p>	<p>WAOR III Chair: Vittorio Curri (13:50-15:30 Tuesday, July 12)</p>	<p>SWP VI Chair: Dobrosława Kasprowicz (14:00-15:40 Tuesday, July 12)</p>	<p>PICAW I Chair: Sylwester Latkowski (13:30-15:10 Tuesday, July 12)</p>	<p>ESPC IV Chair: Nigel Johnson (13:50-15:45 Tuesday, July 12)</p>
<p>14:00 Tu.C1.1 Efficient broadband parametric conversion: Reaching for the mid IR (<i>Invited</i>) C-S. Brès, A. Billat</p> <p>14:20 Tu.C1.2 Three-photon microscopy with a monolithic all-fiber format laser emitting at 1650 nm (<i>Invited</i>) P. Cadroas, L. Kotov, L. Abdeladim, J-T. Gomes, M. Likhachev, W. Supatto, D. Lipatov, M. Tang, A. Hideur, E. Beaufort, S. Février</p> <p>14:40 Tu.C1.3 Thermal effects and gain competition in Yb-doped large mode area fibers for high-power applications (<i>Invited</i>) F. Poli, E. Coscelli, L. Rosa, A. Cucinotta, S. Selleri</p> <p>15:00 Tu.C1.4 High energy square-wave generation from the Er:Yb passive mode-locked fiber ring laser (<i>Invited</i>) G. Semaan, F. Ben Braham, M. Salhi, Y. Meng, F. Bahloul, F. Sanchez</p> <p>15:20 Tu.C1.5 Single-frequency radiation from DBR fiber laser: Numerical analysis by the method of single expression (<i>Invited</i>) H. Baghdasaryan, T. Knyazyan, T. Hovhannisyanyan, M. Marciniak</p> <p>15:40 Tu.C1.6 Ultra-high power narrow band tuning DBR lasers for telecom applications Yaping Zhang</p>	<p>13:30 Tu.C2.1 Software defined networking for heterogeneous access networks (<i>Invited</i>) M. Robinson, M. Milosavljevic, P. Kourteessis, G.P. Stafford, M.J. Burrell, J.M. Senior</p> <p>13:50 Tu.C2.2 Comparison of multi-operator PON technologies beyond NG-PON2. A real greenfield case-study (<i>Invited</i>) S. Medranda Posada, G. Maier, F. Giannone, L. Valcarenghi, A. Marotta, C. Antonelli</p> <p>14:10 Tu.C2.3 Efficient mobile backhaul architecture offering ultra-short latency for handovers (<i>Invited</i>) Jiajia Chen, Jun Li</p> <p>14:30 Tu.C2.4 Enabling 5G wireless access using Li-Fi technology: An OFDM based approach (<i>Invited</i>) W. Abdallah, N. Boudriga</p> <p>14:50 Tu.C2.5 Enhanced DC-biased optical OFDM for intensity-modulated optical OFDM Access systems A.W. Azim, Y. Le Guennec, G. Maury</p> <p>15:05 Tu.C2.6 All-optical virtual private network based on microwave photonic bandpass filter in OFDM-PON system Chang-Hun Kim, Sang-Min Jung, Sang-Kook Han</p>	<p>13:50 Tu.C3.1 Technical challenges and deployment perspectives of SDN based elastic optical networks (<i>Invited</i>) J.R. de Almeida Amazonas, G. Santos-Boada, S. Ricciardi, J. Solé-Pareta</p> <p>14:10 Tu.C3.2 Next steps in elasticity: Enabling signal overlap in optical networks (<i>Invited</i>) P. Castoldi, T. Foggi, F. Paolucci, F. Cugini</p> <p>14:30 Tu.C3.3 SUNSET: Sustainable network infrastructure enabling the future digital society (<i>Invited</i>) J.A. Lazaro, S. Spadaro, J. Perello, J. Gene, J.A. Altabas, A. Pagès, D. Careglio, P. Barlet-Ros, A. Cabellos, J. Solé-Pareta</p> <p>14:50 Tu.C3.4 PRONet: A programmable optical network prototype (<i>Invited</i>) D. Hicks, C. Malina-Maxwell, M. Razo, M. Tacca, A. Fumagalli, D. Nguyen</p> <p>15:10 Tu.C3.5 An emulation environment for SDN enabled flexible IP/optical networks (<i>Invited</i>) A. Kretsis, L. Corazza, K. Christodoulouopoulos, P. Kokkinos, E. Varvarigos</p>	<p>14:00 Tu.C4.1 Dark-field Z-scan imaging technique and application to optical nonlinear refraction measurement (<i>Invited</i>) G. Boudebs, Hongzhen Wang, C. Cassagne, M. Chniti</p> <p>14:20 Tu.C4.2 Transverse cross-correlation scheme for pulse shape measurement in random nonlinear crystals (<i>Invited</i>) C. Cojocar, B. Wang, J. Trull</p> <p>14:40 Tu.C4.3 Nonlinear scattering of laser radiation by high-refractive-index nanoparticles (<i>Invited</i>) D.A. Smirnova, A.I. Smirnov</p> <p>15:00 Tu.C4.4 On nonlinear optical properties of chiral materials (<i>Invited</i>) C. Sibilia, A. Belardini, F.A. Bovino</p> <p>15:20 Tu.C4.5 Nonlinear optical properties of tris-(8-hydroxyquinoline)-aluminum (<i>Invited</i>) B. Derkowska-Zielińska</p> <p>Tu.C4.6 Exploration of nonlinear optical response in metal-containing azo-based iminopyridine complexes (<i>Invited, Cancelled</i>) B. Kulyk, A. Ayadi, D. Guichaoua, A. El-Ghayoury, B. Sahraoui</p>	<p>13:30 Tu.C5.1 Silicon photonic integrated circuits for optical coherence tomography (<i>Invited</i>) W. Freude, S. Schneider, M. Laueremann, P-I. Dietrich, C. Weimann, C. Koos</p> <p>13:50 Tu.C5.2 Slotted silicon photonic structures for hybrid on-chip integration (<i>Invited</i>) Weiwei Zhang, S. Serna, Thi Hong Cam Hoang, X. Le Roux, L. Vivien, E. Cassan</p> <p>14:10 Tu.C5.3 Hybrid silicon-ferroelectric oxide platform for tunable nanophotonics on silicon (<i>Invited</i>) S. Cuffe, P. Castera, A.M. Gutierrez, P. Rojo Romeo, R. Orobtcouk, B. Wague, B. Vilquin, P. Regreny, A. Rosa, T. Angelova, A. Griol, P. Sanchis, G. Saint-Girons</p> <p>14:30 Tu.C5.4 Strained silicon photonics: Recent advances (<i>Invited</i>) P. Damas, X. Le-Roux, M. Berciano, G. Marcaud, C. Alonso-Ramos, D. Benedikovič, D. Marris-Morini, E. Cassan, L. Vivien</p> <p>14:50 Tu.C5.5 Topological optical waveguiding in SOI structures (<i>Invited</i>) I. Andonegui, A. Blanco-Redondo, M.J. Collins, G. Harari, Y. Lumer, M.C. Rechtsman, B.J. Eggleton, M. Segev, A.J. Garcia-Adeva</p>	<p>13:50 Tu.C6.1 Imprinted polymers and photonic crystals for sensing of molecules and nanoparticles (<i>Invited</i>) S. Gam-Derouich, C. Bourdillon, W.D. de Marcellac, L. Coolen, A. Maitre, C. Mangeney, C. Schwob</p> <p>14:10 Tu.C6.2 Full optical confinement in 1D mesoscopic photonic crystal-based microcavities: A preliminary experimental demonstration (<i>Invited</i>) G. Magno, A. Monmayrant, M. Grande, O. Gauthier-Lafaye, G. Calò, B. Dagens, V. Petruzzelli</p> <p>14:30 Tu.C6.3 Imaging label-free biosensor for multiplexed protein detection (<i>Invited</i>) S. Jahns, M. Gerken</p> <p>14:50 Tu.C6.4 Eight-band k-p calculations of the electronic states in InAs/GaSb superlattices (<i>Invited</i>) E. Machowska-Podsiadło, M. Bugajski</p> <p>15:10 Tu.C6.5 Self-pulsing and phonon lasing in optomechanical crystals (<i>Invited</i>) D. Navarro-Urrios, N.E. Capuj, J. Gomis-Bresco, M.F. Colombano, P.D. García, M. Sledzinska, F. Alzina, A. Griol, A. Martinez, C.M. Sotomayor-Torres</p> <p>15:30 Tu.C6.6 T-shape slotted photonic crystal based sensor with high sensitivity C. Babayigit, M. Turdnev, I.H. Giden, E. Bor, H. Kurt</p>
<p>Coffee break (15:55-16:20)</p>					
<p>ICTON VII Chair: Sergey Sergeyev (16:20-18:15 Tuesday, July 12)</p>	<p>ACCESS III Chair: Josep Prat (15:50-18:00 Tuesday, July 12)</p>	<p>WAOR IV Chair: Piero Castoldi (16:00-17:50 Tuesday, July 12)</p>	<p>SWP VII Chair: Crina Cojocar (16:10-17:50 Tuesday, July 12)</p>	<p>PICAW II Chair: Anatole Lupu (15:40-17:20 Tuesday, July 12)</p>	<p>PAM I Chair: Alex Nosich (16:10-17:50 Tuesday, July 12)</p>
<p>16:20 Tu.D1.1 Comparison of linear and nonlinear equalization for ultra-high capacity spectral superchannels (<i>Invited</i>) V. Vgenopoulou, S. Erkilinc, R. Bouziane, A. Tolmachev, M. Nazareth, R. Killely, I. Tomkos</p> <p>16:40 Tu.D1.2 Network savings enabled by probabilistic shaping and nonlinear compensation (<i>Invited</i>) C.A.S. Diniz, M. Garrich Alabarce, D.A.A. Mello</p> <p>17:00 Tu.D1.3 Perturbative discrete-time multivariate fiber channel model with finite memory (<i>Invited</i>) M. Sorokina, S. Sygletos, S. Turitsyn</p> <p>17:20 Tu.D1.4 Compensation of nonlinear distortion through frequency shift free mid-span spectral inversion using counter-propagating dual pumped FWM in fiber (<i>Invited</i>) A. Anchal, P. Kumar, P. Landais</p> <p>17:40 Tu.D1.5 Evaluation of the impact of spatial and spectral granularities on the performance of spatial superchannel switching schemes (<i>Invited</i>) B. Shariati, D. Klonidis, J.M. Rivas-Moscoco, I. Tomkos</p> <p>18:00 Tu.D1.6 Link optimisation for DWDM transmission with an optical phase conjugation P. Rosa, G. Rizzelli, J.D. Ania-Castañón</p>	<p>15:50 Tu.D2.1 Do "master-slave" architectures make sense for optical interconnect? (<i>Invited</i>) S. Straullu, M.S. Khaliq, V. Curri, S. Abrate</p> <p>16:10 Tu.D2.2 Impact of demand uncertainty models on FTTH network design (<i>Invited</i>) M. Żotkiewicz, M. Mycek</p> <p>16:30 Tu.D2.3 Wavelength agnostic WDM-PON systems (<i>Invited</i>) C. Wagner, M. Eiselt, S. Zou, M. Lawin, B. Teipen, K. Grobe, J.J. Vegas Olmos, I. Tafur Monroy</p> <p>16:50 Tu.D2.4 BER performance improvement in FFH-OCDMA networks with BPSK modulation format (<i>Invited</i>) A.L. Sanches, T.R. Raddo, J.V. dos Reis Jr., L.H. Bonani, B.V. Borges</p> <p>17:10 Tu.D2.5 Design of flexible udWDM metro-access network devices assisted by high resolution complex spectroscopy (<i>Invited</i>) J.A. Altabas, D. Izquierdo, A. Pascual, S. Sarmiento, J.A. Lazaro, I. Garces, A. Villafranca</p> <p>17:30 Tu.D2.6 In-service line monitoring of a colourless wavelength division multiplexed passive optical network F. Chiarello, L. Palmieri, P. Parolari, M. Brunero, P. Boffi, A. Galtarossa, M. Santagiustina</p>	<p>16:00 Tu.D3.1 Impact of tunability and blocking fabric on optical slot switching ring performance (<i>Invited</i>) N. Benzaoui, Y. Pointurier</p> <p>16:20 Tu.D3.2 Incorporating an indicator based on modularity to improve routing in optical networks (<i>Invited</i>) C.J.A. Bastos-Filho, D.R.B. Araújo, J.F. Martins-Filho</p> <p>16:40 Tu.D3.3 Influence of the spatial super channel guard-band width on the performance of dynamic flex-grid/SDM optical core networks (<i>Invited</i>) R. Rumipamba-Zambrano, J. Perelló, A. Pagès, J.M. Gené, S. Spadaro</p> <p>17:00 Tu.D3.4 Recent advances in optical and hybrid packet switching (<i>Invited</i>) C. Ware, W. Samoud, P. Gravey, M. Lourdiane</p> <p>17:20 Tu.D3.5 Performances of all optical logical gates for packet forwarding R. Farhat, A. Farhat, M. Menif</p> <p>17:35 Tu.D3.6 Investigation of hybrid opto-electronic packet switch connected to SDM fibers considering various traffic distributions W. Samoud, C. Ware, M. Lourdiane</p>	<p>16:10 Tu.D4.1 Hybrid metal nanostructure arrays for colour printing (<i>Invited</i>) K. Wilson, C.A. Marocco, E. Pedreuzza, C. Smith, A.L. Bradley</p> <p>16:30 Tu.D4.2 Spontaneous oxygen isotope exchange between carbon dioxide and oxygen-containing minerals (Do the minerals "breathe" CO₂)? (<i>Invited</i>) S. Civiš, A. Knížek, P. Kubelík, M. Ferus</p> <p>16:50 Tu.D4.3 Silver nanoparticles in titanium dioxide host plasmonic absorbers (<i>Invited</i>) P. Nyga, S. Chmiel, M. Szczurek, M. Liszewska, M. Stefaniak, J. Firak, M. Michalska-Domanska, J. Mierczyk, M. Norek</p> <p>17:10 Tu.D4.4 Lattice effects in second-harmonic generation from metasurfaces (<i>Invited</i>) R. Czaplicki, A. Kiviniemi, J. Laukkanen, J. Lehtolahti, M. Kuittinen, M. Kauranen</p> <p>17:30 Tu.D4.5 Subwavelength optics with hyperbolic metamaterials: Waveguides, scattering, and optical topological transitions (<i>Invited</i>) S. Ishii, V.E. Babicheva, M.Y. Shalaginov, A. Boltasseva, A.V. Kildishev, E. Narimanov</p>	<p>15:40 Tu.D5.1 An integrated photonics reservoir computing approach to signal equalization for telecommunications (<i>Invited</i>) A. Katumba, B. Schneider, J. Dambre, P. Bienstman</p> <p>16:00 Tu.D5.2 Programmable integrated photonics for space division (de)multiplexing (<i>Invited</i>) A. Melloni</p> <p>16:20 Tu.D5.3 Infrared emitting erbium-doped quinolines for silicon organic hybrid technology (<i>Invited</i>) S. Penna, S. Di Bartolo, V. Attanasio, L. Mattiello</p> <p>16:40 Tu.D5.4 Electrical switching in hybrid VO₂/Si photonic structures (<i>Invited</i>) L.D. Sánchez, A. Rosa, T. Angelova, J. Hurtado, A. Griol, P. Sanchis, M. Menghini, P. Homm, B. van Bilzen, A. Brown, J-P. Locquet, L. Zimmermann</p> <p>17:00 Tu.D5.5 Integrated optics on single-crystal lithium niobate thin film: Some recent progress (<i>Invited</i>) Lutong Cai, Huangpu Han, Shuang Li, Hui Hu</p>	<p>16:10 Tu.D6.1 Site-controlled quantum dots coupled to photonic crystal cavities and waveguides (<i>Invited</i>) B. Rigal, C. Jarlov, A. Lyasota, I. Kulkova, B. Dwir, A. Rudra, E. Kapon</p> <p>16:30 Tu.D6.2 Enhanced emission near an exceptional point in an asymmetric microcavity (<i>Invited</i>) Kyungwon An</p> <p>16:50 Tu.D6.3 Rigorous model for the design of ultra-high Q-factor resonant cavities (<i>Invited</i>) C. Ciminelli, F. Innone, G. Brunetti, D. Conteduca, F. Dell'Olio, T. Tatoli, M.N. Armenise</p> <p>17:10 Tu.D6.4 Optimising fibre-tip microcavities with Gaussian-shaped mirrors for quantum networks (<i>Invited</i>) N. Podoliak, H. Takahashi, M. Keller, P. Horak</p> <p>17:30 Tu.D6.5 Ultra-long photon lifetime in a slow-light microcavity (<i>Invited</i>) V. Huet, P. Guillemé, M. Mortier, Y. Dumeige, P. Féron</p>

17:45 Tu.D2.7 Externally-seeded WDM PON for next generation mobile access based on pulse-width modulation <i>P. Parolari, A. Gatto, L. Combi, P. Boffi, U. Spagnolini, R. Brenot, M. Martinelli</i>					
18:30 Social event at Rotari Winery					
Wednesday, July 13					
Track 1 – ROOM 3	Track 2 – ROOM 1	Track 3 – ROOM 6	Track 4 – ROOM 221	Track 5 – ROOM 223	Track 6 – ROOM 224
ICTON VIII <i>Chair: José Lázaro</i> (8:30-10:20 Wednesday, July 13)	5GT I <i>Chair: Massimo Tornatore</i> (8:30-10:10 Wednesday, July 13)	BigNeO I <i>Chair: Luis Velasco</i> (8:30-10:10 Wednesday, July 13)	SWP VIII <i>Chair: George Stanciu</i> (8:30-10:10 Wednesday, July 13)	PICAW III <i>Chair: Marco Liscidini</i> (8:30-10:10 Wednesday, July 13)	PAM II <i>Chair: Peter Horak</i> (8:30-10:10 Wednesday, July 13)
8:30 We.A1.1 Efficient spectrum assignment in elastic optical networks (<i>Invited</i>) <i>J. Comellas, X. Calzada, G. Junyent</i>	8:30 We.A2.1 Scalable software-defined monitoring for 5G NFV (<i>Invited</i>) <i>B. Pechenot</i>	8:30 We.A3.1 A quick view on current techniques and machine learning algorithms for big data analytics (<i>Tutorial</i>) <i>J.L. Berral-García</i>	8:30 We.A4.1 High order frequency mixing in field effect transistors and fractional Dyakonov-Shur resonances (<i>Invited</i>) <i>M.R. Razafindrakoto, F. Bigourdan, D. Felbacq</i>	8:30 We.A5.1 Multi-terabit/s transmission using chip-scale frequency comb sources (<i>Invited</i>) <i>C. Koos, T.J. Kippenberg, L.P. Barry, L. Dalton, A. Ramdane, F. Lelarge, W. Freude, J.N. Kemal, P. Marin, S. Wolf, P. Trocha, J. Pfeifle, C. Weimann, M. Laueremann, T. Herr, V. Brasch, R.T. Watts, D. Elder, A. Martinez, V. Panapakkam, N. Chimot</i>	8:30 We.A6.1 Label-free nanoscopy with contact microlenses: Super-resolution mechanisms and limitations (<i>Invited</i>) <i>V.N. Astratov, F. Abolmaali, A. Brettin, K.W. Allen, A.V. Maslov, N.I. Limberopoulos, D.E. Walker Jr., A.M. Urbas</i>
8:50 We.A1.2 A comparative discussion of some fairness-generating schemes in elastic networking (<i>Invited</i>) <i>H. Waldman, I.D.T. de Souza, R.C. de Almeida Jr., R.C. Bortoletto</i>	8:50 We.A2.2 Virtualization and control in multi-provider environment: The 5G exchange approach (<i>Invited</i>) <i>C.J. Bernardos Cano</i>	9:30 We.A3.2 Incremental capacity planning in optical transport networks based on periodic performance metrics (<i>Invited</i>) <i>F. Morales, M. Ruiz, L. Velasco</i>	8:50 We.A4.2 Spectroelectrochemical characterization of new organic thin films (<i>Invited, Cancelled</i>) <i>V. Figà, M.P. Casaletto</i>	8:50 We.A5.2 Flexible optical networking employing integrated frequency combs (<i>Invited</i>) <i>A. Kaszubowska, L.J.A.R. de Ojeda, M.D. Gutierrez Pascual, C. Blumm, J. Bradell, F. Smyth, P.M. Anandarajah</i>	8:50 We.A6.2 Optical microcavity sensing: From dispersive to dissipative interactions (<i>Invited</i>) <i>Yun-Feng Xiao, Yanyan Zhi, Xiao-Chong Yu, Bo-Qiang Shen</i>
9:10 We.A1.3 Multi-adaptive S-BVT for software defined optical networks (<i>Invited</i>) <i>M. Svaluto Moreolo, J.M. Fàbrega, L. Nadal</i>	9:10 We.A2.3 Resource allocation in the 5G-crosshaul (<i>Invited</i>) <i>D. Siracusa</i>	9:50 We.A3.3 Big data analytics for the virtual network topology reconfiguration use case (<i>Invited</i>) <i>L. Gifre, F. Morales, L. Velasco, M. Ruiz</i>	9:10 We.A4.3 Three-dimensional photonic structures on transparent substrates fabricated by two-photon polymerization for use as cell substrates and for wetting experiments (<i>Invited</i>) <i>J. Heitz, C. Plamadeala, M. Wiesbauer, P. Freudenthaler, R. Wollhofen, J. Jacak, S. Puthukodan, T.A. Klar, A. Weth, W. Baumgartner, B. Magnus, R. Marksteiner</i>	9:10 We.A5.3 Efficient dielectric waveguide lasers (<i>Invited</i>) <i>M. Pollnau</i>	9:10 We.A6.3 Propulsion of dielectric particles inside hollow-core photonic crystal fibers (<i>Invited</i>) <i>A.V. Maslov</i>
9:30 We.A1.4 Performance evaluation of partition scheme with first-last fit spectrum allocation for elastic optical networks (<i>Invited</i>) <i>E. Oki, B.C. Chatterjee</i>	9:30 We.A2.4 Fixed mobile convergence for 5G network: The COMBO vision (<i>Invited</i>) <i>D. Breuer</i>	9:30 We.A4.4 Femtosecond laser written photonic circuits in diamond for quantum information (<i>Invited</i>) <i>S.M. Eaton, B. Sotillo, V. Bharadwaj, M. Sakakura, Y. Shimotsuma, A. Chiappini, M. Ferrari, J.P. Hadden, P.E. Barclay, K. Miura, R. Ramponi</i>	9:30 We.A4.5 New generation of compact laser sources for biomedical applications (<i>Invited</i>) <i>E.U. Rafailov, K.S. Litvinova, S.G. Sokolovski</i>	9:30 We.A5.4 Fabrication of high-contrast waveguide amplifiers in erbium doped potassium double tungstates (<i>Invited</i>) <i>M.A. Sefunc, T. Alexoudi, Jinfeng Mu, M. Dijkstra, S.M. García-Blanco</i>	9:30 We.A6.4 Fast beam switching operation of two-dimensional microcavity laser diode (<i>Invited</i>) <i>T. Fukushima, K. Sakaguchi, Y. Tokuda</i>
9:50 We.A1.5 Lightpath threshold adaptation algorithm for dispersion-adaptive first-last fit spectrum allocation scheme in elastic optical networks <i>B.C. Chatterjee, E. Oki</i>	9:50 We.A2.5 Flexible and efficient network elements for 5G: Radio-over-fiber interconnections in the Flex5Gware project (<i>Invited</i>) <i>G. Torfs</i>			9:50 We.A5.5 Halide perovskite amplifiers integrated in polymer waveguides (<i>Invited</i>) <i>I. Suárez, E.J. Juárez-Pérez, I. Mora-Seró, J. Bisquert, J.P. Martínez-Pastor</i>	9:50 We.A6.5 Integrated subwavelength grating nanostructures for photonics applications (<i>Invited</i>) <i>Wenxi Yu, Mao Ye, Ya Sha Yi</i>
10:05 We.A1.6 A statistical analysis of transparent optical networks comparing merit of fiber types and elastic transceivers <i>M. Cantono, R. Gaudino, V. Curri</i>					
Coffee break (10:20-10:50)	Coffee break (10:10-10:40)	Coffee break (10:10-10:40)	Coffee break (10:10-10:40)	Coffee break (10:10-10:40)	Coffee break (10:10-10:40)
ICTON IX <i>Chair: Pascal Landais</i> (10:50-12:30 Wednesday, July 13)	5GT II <i>Chair: Matteo Fiorani</i> (10:40-12:00 Wednesday, July 13)	BigNeO II <i>Chair: Luis Velasco</i> (10:40-12:00 Wednesday, July 13)	SWP IX <i>Chair: Hovik Baghdasaryan</i> (10:40-12:15 Wednesday, July 13)	PICAW IV <i>Chair: Pablo Sanchis</i> (10:40-12:30 Wednesday, July 13)	PAM III <i>Chair: Vasily Astratov</i> (10:40-12:25 Wednesday, July 13)
10:50 We.B1.1 Moiré effect-based spectral resolution enhancement for fine WDM-based optical signal processing and measurement (<i>Invited</i>) <i>T. Konishi</i>	10:40 We.B2.1 5G network challenges and realization insights (<i>Invited</i>) <i>P.S. Khodashenas, J. Aznar, A. Legarrea, C. Ruiz, M.S. Siddiqui, E. Escalona, S. Figuerola</i>	10:40 We.B3.1 Validation of multi-layer network optimization (<i>Invited</i>) <i>Yu Peng, Rongping Lin, Fan Li, Chang Xing, Jun Guo, Wenjie Hu, V. Abramov, R.G. Addi, M. Zukerman</i>	10:40 We.B4.1 STM-based electrical generation of surface plasmons enhanced by nanoantenna (<i>Invited</i>) <i>F. Bigourdan, J-P. Hugonin, F. Marquier, C. Sauvan, J-J. Greffet</i>	10:40 We.B5.1 Cavity-resonator-integrated guided-mode resonance filter with position-shifted grating coupler (<i>Invited</i>) <i>K. Kintaka, J. Inoue, S. Ura</i>	10:40 We.B6.1 On third-order nonlinear scattering in whispering gallery mode resonators (<i>Invited</i>) <i>Guoping Lin, S. Diallo, Y.K. Chembo</i>
11:10 We.B1.2 Optical performance monitoring based on 2-D phase portrait generated by single-channel sampling technique (<i>Invited</i>) <i>Changyuan Yu, Yi Yu, Xiaodong Fu</i>	11:00 We.B2.2 Fiber monitoring in analog mobile fronthaul (<i>Invited</i>) <i>P.J. Urban</i>	11:00 We.B3.2 Traffic generation for telecom cloud-based simulation (<i>Invited</i>) <i>A.P. Vela, A. Vía, F. Morales, M. Ruiz, L. Velasco</i>	11:00 We.B4.2 Stimulated scattering of surface plasmon polaritons (SPPs) in smectic A liquid crystal (<i>Invited</i>) <i>B.I. Lembrikov, Y. Ben-Ezra, D. lanetz</i>	11:00 We.B5.2 Four-wave mixing in porous silicon microring resonators (<i>Invited</i>) <i>A. Simbula, G.A. Rodriguez, M. Menotti, M. Galli, D. Bajoni, S.M. Weiss, M. Liscidini</i>	11:00 We.B6.2 Lightwave circuit elements based on microsphere resonators and meandering waveguides (<i>Invited</i>) <i>A. Serpengüzel</i>
11:30 We.B1.3 Subwavelength structures for nanophotonic couplers, colourless splitters, polarization control and mid-infrared waveguides (<i>Invited</i>) <i>P. Cheben, J.H. Schmid, D-X. Xu, S. Janz, J. Lapointe, M. Rahim, S. Wang, M. Vachon, R. Halir, A. Ortega-Moñux, J.D. Sarmiento-Merenguel, G. Wangüemert-Pérez, I. Molina-Fernández, J. Pond, D. Benedikovic, C. Alonso-Ramo, X. Le Roux, L. Vivien, D. Marris-Morini, J.S. Penadés, M. Nedeljkovic, G.Z. Mashanovich, A.V. Velasco, M.L. Calvo, M. Dado, J. Müllerová, W. Ye, M. Pápeš, V. Vašinek</i>	11:20 We.B2.3 High optical label switching add-drop multiplexer nodes with nanoseconds latency for 5G metro/access networks (<i>Invited</i>) <i>N. Calabretta, Wang Miao, H. de Waardt</i>	11:20 We.B3.3 Connectivity requirements for cloud-based services (<i>Invited</i>) <i>A. Asensio, M. Ruiz, L. Velasco</i>	11:20 We.B4.3 Surface plasmon generation through hybridization with Tamm modes (<i>Invited</i>) <i>C. Symonds, S. Azzini, G. Lheureux, P. Senellart, A. Lemaitre, J-J. Greffet, C. Sauvan, C. Blanchard, J. Bellessa</i>	11:20 We.B5.3 Local parity-time symmetry functional devices for integrated optics (<i>Invited</i>) <i>N. Dubrovina, V. Brac de la Perrière, H. Benisty, A. Ramdane, A. Lupu</i>	11:20 We.B6.3 Simulation of graphene-disk antenna with axially symmetric excitation using MAR and orthogonal polynomials (<i>Invited</i>) <i>A.I. Nosich R. Sauleau</i>
11:50 We.B1.4 Recent advances in all-optical signal processing for performance enhancement of OCDMA interconnects (<i>Invited</i>) <i>M.S. Ahmed, I. Glesk</i>	11:40 We.B2.4 Optimization of centralized radio access networks in indoor areas (<i>Invited</i>) <i>C. Raffaelli, F. Tonini, M. Fiorani, M. Furdek, P. Monti, L. Wosinska</i>	11:40 We.B3.4 Performance evaluation of video distribution in the telecom cloud (<i>Invited</i>) <i>L. Gifre L. Velasco</i>	11:40 We.B4.4 Surface waves on metal-dielectric metamaterials (<i>Invited</i>) <i>O. Takayama, E. Shkondin, M.E. Aryaee Panah, T. Repän, R. Malureanu, F. Jensen, A.V. Lavrinenko</i>	11:40 We.B5.4 Long wavelength monolithic photonic integration technology for gas sensing applications (<i>Invited</i>) <i>S. Latkowski, A. Hänssel, D. D'Agostino, P.J. van Veldhoven, H. Rabbani-Haghighi, B. Docter, N. Bhattacharya, P.J.A. Thijs, H.P.M.M. Ambrosius, M.K. Smit, K.A. Williams, E.A.J.M. Bente</i>	11:40 We.B6.4 A scalable reduced order modelling approach for whispering-gallery mode resonators <i>G. Abbiati, F. Turri, F. Ramiro-Manzano, L. Pavesi, O.S. Bursi</i>
12:10 We.B1.5 Optimization of all-optical signal processing via nonlinear fiber Bragg gratings (<i>Invited</i>) <i>L. Scholtz, L. Ladányi, J. Müllerová</i>			12:00 We.B4.5 Integrated plasmonic nanotweezers: Toward the manipulation of nanoobjects <i>G. Magno, A. Ecarnot, V. Yam, P. Gogol, R. Mégy, B. Dagens</i>	12:00 We.B5.5 Time resolved electro-optic measurements in strained silicon racetrack resonators <i>M. Borghi, M. Mancinelli, F. Merget, J. Witzens, M. Bernard, M. Ghulinyan, G. Pucker, L. Pavesi</i>	11:55 We.B6.5 Ultra-high Q lithium niobate whispering-gallery-mode resonators <i>Yu Pan, Y.K. Chembo</i>
				12:15 We.B5.6 Linear absorption coefficient of graphene-silicon hybrid waveguide determined by <i>in-plane</i> symmetrical add-drop silicon microring resonator <i>Heng Cai, Yi Wang</i>	12:10 We.B6.6 Elastic light scattering from a germanium microsphere in the far-IR region <i>F. Azeem, M.H. Humayun, A. Serpengüzel</i>
Lunch break (12:30-14:00)	Lunch break (12:00-13:30)	Lunch break (12:00-13:30)	Lunch break (12:15-13:45)	Lunch break (12:30-14:00)	Lunch break (12:25-13:50)
POSTER Session II (13:30-15:30 Wednesday, July 13)					

- We.P.1** Light localization in chirped woodpile photonic crystals
Z. Hayran, H. Kurt, K. Staliunas
- We.P.2** Tuning four-wave mixing through temperature in ethanol-filled photonic crystal fiber
L. Velázquez-Ibarra, A. Díez, E. Silvestre, M.V. Andrés
- We.P.3** Generation of cylindrical vector beams on the basis of uniaxial crystals and various types of DOEs
V. Parani, S. Khonina, S. Karpeev, D. Savelyev
- We.P.4** Elastic scattering from germanium microspheres in the terahertz region
S.S.S. Bukhari, M.R. Chaudhry, A. Serpengüzel
- We.P.5** Mid-infrared elastic scattering from germanium microspheres
M. Zakwan, M.M. Bayer, M.S. Anwar, U.S. Gökay, A. Serpengüzel
- We.P.6** Resilience of semiconductor optical amplifier with holding beam injection to reflections in bidirectional reciprocal operation
J. Vojtech, J. Radil, O. Havlis, M. Altmann, P. Skoda, V. Smotlacha
- We.P.7** Mode selection and four wave mixing in a multimode silicon waveguide (**Cancelled**)
S. Signorini, M. Borghi, M. Mancinelli
- We.P.8** Numerical analysis of suppression of the higher order modes in nitride VCSELs using an inverted surface relief
J. Walczak, P. Śpiewak, Ł. Piskorski, M. Wasiak, T. Czystanowski, R.P. Sarzała
- We.P.9** Effect of increasing temperature on the physical properties of nano-composite phospho-silicate
Z. Shaker, M. El Shaarawy, N.M.H. Shash, H. Khoder, M.A. Salem, A. Lukowiak, M. Ferrari, I.K. Battisha
- We.P.10** PbWO₄ micro-/nanocrystals in transparent glass-ceramics: Synthesis, structure-property relationship and lanthanide doping
I. Czopek, J. Pisarska, T. Goryczka, W.A. Pisarski
- We.P.11** Energy transfer processes between rare earth ions and white light emission in inorganic glasses
M. Soltys, A. Kos, J. Janek, L. Żur, W.A. Pisarski, J. Pisarska
- We.P.12** Spectroscopic investigations of Yb³⁺/Ho³⁺ and Yb³⁺/Tm³⁺/Ho³⁺ co-doped germanate glasses and optical fibers
M. Kochanowicz, J. Zmojda, P. Miluski, P. Jelen, M. Sitarz, D. Dorosz
- We.P.13** Design of rare-earth doped chalcogenide microresonators for biosensing in mid-IR
G. Palma, M.C. Falconi, F. Starecki, V. Nazabal, L. Bodiou, Y. Dumeige, J. Lemaitre, J. Charrier, F. Prudeniano
- We.P.14** Superresolution imaging with contact microspheres: Importance of numerical aperture
A. Brettin, F. Abolmaali, N.I. Limberopoulos, D.E. Walker Jr., A.M. Urbas, V.N. Astratov
- We.P.15** Simulation of elastic scattering from a germanium microsphere in the near-IR
H.O. Çirkinoğlu, I. Khan, A. Serpengüzel
- We.P.16** Control of Q-factor in nanobeam cavities on substrate
D. Panettieri, L. O'Faolain, M. Grande
- We.P.17** Field patterns of whispering-gallery and bow-tie modes of elliptic microcavity lasers with circular active regions
A.O. Spiridonov E.M. Karchevskii
- We.P.18** Phase investigation of reactively coupled cavity modes in a microring resonator
F. Turri, F. Ramiro-Manzano, S. Biasi, M. Ghulynian, G. Pucker, L. Pavesi
- We.P.19** Experimental demonstration of integrated photonic free-label biosensor for CBRN threats using micro-ring resonators
N. Peserico, A. Annoni, A. Varriale, S. D'Auria, L. Bellieres, F. Cuesta-Soto, M. Rodrigo, S. Peransi, A. Melloni
- We.P.20** Integrated racetrack micro-resonator based on porous silicon ridge waveguides
L. Poffo, P. Girault, N. Lorrain, J. Lemaitre, M. Guendouz, P. Azuelos, I. Hardy, A. Gutierrez, L. Bodiou, M. Thual, J. Charrier
- We.P.21** Study of the optical properties of 1x16 splitter based on Y-branch and MMI approaches
C. Burtscher, D. Seyringer, M. Lucki
- We.P.22** Photonic integrated circuits based millimeter-waves generation
R.C. Guzmán M., G. Carpintero, T. Nagatsuma, C. Gordón, Mu Chieh Lo
- We.P.23** Modeling and validation of high-performance and athermal AWGs for the silicon photonics platform
S. Tondini, C. Castellán, M. Mancinelli, L. Pavesi
- We.P.24** Modeling the propagation of ultra-short pulses in silicon waveguides: Second and third order nonlinear effects (**Cancelled**)
C. Castellán, M. Mancinelli, L. Pavesi
- We.P.25** Non-invasive TDC based temperature method for the local interconnects properties identification
R. Frankowski, M. Kowalski, P. Plóciennik, M. Zieliński
- We.P.26** Hybrid plasmonic-ferroelectric systems for enhanced second harmonic generation at sub-wavelength dimensions (**Cancelled**)
A. Gómez-Tornero, L.E. Bausá, M.O. Ramírez
- We.P.27** Optical properties of diarylethylene polymers
B. Derkowska-Zielinska, E. Mateuszuk, L. Skowronski, T. Kozłowski, O. Krupka, V. Smokal, O. Kolendo
- We.P.28** Quantum interference in an asymmetric Mach-Zehnder interferometer (**Cancelled**)
A. Trenti, M. Borghi, M. Mancinelli, G. Fontana, L. Pavesi
- We.P.29** Stability criteria of a tapered InAs/InGaAs quantum dot laser based on pulse amplitude jitter and timing jitter investigations
L. Drzewietzki, C. Weber, S. Breuer
- We.P.30** Monolithic passively mode-locked semiconductor quantum-well laser emitting at 1070 nm: Picosecond pulse generation and pulse train stability analysis
C. Weber, A. Klehr, A. Knigge, S. Breuer
- We.P.31** Comparison of mode thresholds in microdisk and microring lasers with uniform and non-uniform gain profiles
A.S. Zolotukhina, A.O. Spiridonov, E.M. Karchevskii
- We.P.32** Selected methods of thin films deposition and their applications
P. Plóciennik, A. Zawadzka, R. Frankowski, A. Korcala
- We.P.33** Wavelength-scale analysis of influence of chirped DBRs on optical characteristics of multilayer photovoltaic cells
H.V. Baghdasaryan, T.M. Knyazyan, T.T. Hovhannisyán, G.R. Mardoyan, M. Marciniak
- We.P.34** Multiwavelength erbium ring laser based on multicore fibre
Ł. Sojka, L. Pajewski, H. Stawska, P. Mergo, S. Sujecki, T.M. Benson, E. Beres-Pawlik
- We.P.35** Improving the high-speed response of the GaAs metal-semiconductor-metal photodetector
S. Benzeghda, F. Hobar, D. Decoster
- We.P.36** Nd³⁺ and Lu³⁺ doped CaF₂ crystals as novel amplifier materials for high-energy infrared lasers
S. Normani, A. Braud, J.L. Doualan, R. Moncorgé, C. Maunier, D. Stoffel, P. Camy
- We.P.37** Photonic crystal slab strain sensors: A viable tool for structural health monitoring
V. Piccolo, A. Piotrowska, A. Chiappini, A. Vaccari, M. Ferrari, L. Deseri, D. Zonta

<p style="text-align: center;">ICTON X Chair: Pavel Cheben (14:00-15:35 Wednesday, July 13)</p>	<p style="text-align: center;">5GT III Chair: Paolo Monti (13:30-14:45 Wednesday, July 13)</p>	<p style="text-align: center;">BigNeO III Chair: Marc Ruiz (13:30-14:50 Wednesday, July 13)</p>	<p style="text-align: center;">SWP X Chair: Alexander Quandt (13:45-15:20 Wednesday, July 13)</p>	<p style="text-align: center;">PICAW V Chair: Markus Pollnau (14:00-15:55 Wednesday, July 13)</p>	<p style="text-align: center;">Novel Glasses I Chair: Angela Seddon (13:50-15:30 Wednesday, July 13)</p>
<p>14:00 We.C1.1 Polarization grating-based wavelength selective switches (Invited) G. Cincotti, G. Costa</p> <p>14:20 We.C1.2 Optimizing grating couplers for silicon photonics (Invited) L.C. Andreani, D. Gerace, M. Passoni, A. Bozzola, L. Carroll</p> <p>14:40 We.C1.3 Theory of quadratic optical frequency combs (Invited) T. Hansson, F. Leo, M. Erkintalo, S. Coen, I. Ricciardi, M. De Rosa, S. Wabnitz</p> <p>15:00 We.C1.4 Near-infrared spectral combs probe molecular interactions (Invited) C. Caucheteur, C. Ribaut, R. Wattiez</p> <p>15:20 We.C1.5 Performance optimization of an apodized-chirped fiber Bragg gratings based chromatic dispersion compensator Y.T. Aladadi, A.F. Abas, M.T. Alresheedi</p>	<p>13:30 We.C2.1 Requirements for 5G fronthaul (Invited, moved to session Mo.D3) L. Valcarenghi, K. Kondepu, F. Giannone, P. Castoldi</p> <p>13:30 We.C2.2 Applicability of 5GT and dynamic VM mobility using cross stratum orchestration (CSO) (Invited) Young Lee, J. Kaippallimalil</p> <p>13:50 We.C2.3 On combined optical/5G networks (Invited) C. Bock</p> <p>14:10 We.C2.4 Spectrally efficient fronthaul architectures for a cost-effective 5G C-RAN (Invited) D.A.A. Mello, A.N. Barreto, F.A. Barbosa, C. Osorio, M. Fiorani, P. Monti</p> <p>14:30 We.C2.5 Evaluation of bandwidth and power consumption in reconfigurable fronthaul network architecture V. Eramo, M. Listanti, F.G. Lavacca, P. Iovanna, G. Bottari, F. Ponzini</p>	<p>13:30 We.C3.1 Optimization models for total cost of ownership analysis of next-generation transport networks based on SBVTs (Invited) A. Eira, J. Pedro, M. Quagliotti</p> <p>13:50 We.C3.2 Determination of user opinion based on IPTV data (Invited) M. Kren, U. Sedlar, J. Bešter, A. Kos</p> <p>14:10 We.C3.3 Network-based telemetry to facilitate the programmable management plane for optical transport infrastructure (Invited) D. King, C. Rotsos, A. Aguado, L. Velasco, N. Georgalas</p> <p>14:30 We.C3.4 To distribute or not to distribute? Impact of latency on virtual network function distribution at the edge of the FMC network (Invited) M. Savi, A. Hmaity, G. Verticale, S. Höst, M. Tornatore</p>	<p>13:45 We.C4.1 Slow and stored light in amplifying four way mixing process (Invited) B. Zlatković, A. Krmpot, M. Radonjić, B. Jelenković</p> <p>14:05 We.C4.2 Luminescence properties of Er³⁺ ions in nanocrystalline glass-ceramics (Invited) R. Balda, A. Miguel, R. Morea, J. Gonzalo, J. Fernández</p> <p>14:25 We.C4.3 Up-conversion luminescence and μ-Raman investigations of KGd(WO₄)₂ crystalline powders doped with rare earth ions (Invited) D. Kasprowicz, P. Gluchowski, K. Jaroszewski, M. Chrunik, A. Majchrowski</p> <p>14:45 We.C4.4 Electronic states in core-shell quantum rings (Invited) A. Sitek, G. Thorgilsson, V. Gudmundsson, A. Manolescu</p> <p>15:05 We.C4.5 Random lasing of LiLa_{1-x}Nd_xP₄O₁₂ crystal powders J. Azkargorta, L. Marciniak, I. Iparraguirre, R. Balda, W. Strek, M. Barredo-Zuriarrain, S. Garcia-Revilla, J. Fernández</p>	<p>14:00 We.C5.1 Multi-channel Mach-Zehnder IQ modulator PICs on InP for hybrid OFDM transmitter integration (Invited) B. Gomez Saavedra, R. Kaiser, J. Beyer, M. Rausch, M. Gruner, W. Fürst, M. Schell</p> <p>14:20 We.C5.2 Polarization-, carrier-, and format-selectable optical flow generation based on a multi-flow transmitter using passive polymers (Invited) V. Katopodis, M. Spyropoulou, C. Tsokos, P. Groumas, D. Felipe, N. Keil, A. Beretta, A. Vannucci, T.K. Johansen, M. Quagliotti, A. Pagano, J-Y. Dupuy, A. Konczykowska, C. Delezoide, H. Mardoyan, C. Kouloumentas, H. Avramopoulos</p> <p>14:40 We.C5.3 Reconfigurable lattice mesh designs for programmable photonic processors and universal couplers (Invited) D. Pérez, I. Gasulla, J. Capmany, R.A. Soref</p> <p>15:00 We.C5.4 Flexible 90° hybrid coupler for coherent optical systems based on organic-inorganic hybrids (Invited) A.R.N. Bastos, C.M.S. Vicente, L.D. Carlos, M. Lima, P.S. André, R.A.S. Ferreira</p> <p>15:20 We.C5.5 Design and simulation of Si₃N₄ based arrayed waveguide gratings applying AWG-parameters tool (Invited) D. Seyringer, C. Burtscher, S. Partel, J. Edlinger, A. Maese-Novo, P. Muellner, R. Hainberger, J. Kraft, G. Koppitsch, G. Meinhardt</p> <p>15:40 We.C5.6 An improved model to predict thermo-optic coefficient in InGaAsP waveguides A. Waqas, A. Alippi, D. Melati, A. Melloni</p>	<p>13:50 We.C6.1 Bragg grating UV inscription in a bioresorbable phosphate glass optical fiber (Invited) M. Konstantaki, S. Pissadakis, D. Pugliese, E. Ceci-Ginistrelli, N.G. Boetti, D. Milanese</p> <p>14:10 We.C6.2 Phosphate-based glasses and nanostructures (Invited) A. Lukowiak, L. Marciniak, I. Vasilchenko, C. Armellini, A. Chiasera, A. Vaccari, M. Ferrari, D. Dorosz, W. Strek</p> <p>14:30 We.C6.3 RF-sputtering derived phosphosilicate planar waveguides activated by Er³⁺ ions (Invited) A. Chiasera, I. Vasilchenko, D. Dorosz, M. Cotti, S. Varas, E. Iacob, G. Speranza, A. Vaccari, S. Valligatla, L.Z. Zur, A. Lukowiak, G.C. Righini, M. Ferrari</p> <p>14:50 We.C6.4 Bioresorbable calcium-phosphate glasses for biophotonic applications (Invited) D. Pugliese, E. Ceci-Ginistrelli, N.G. Boett, A. Ambrosone, J. Lousteau, D. Milanese</p> <p>15:10 We.C6.5 Contactless temperature sensing via luminescence (Invited) M.D. Dramićanin, Z. Antić, S. Kuzman, T. Thundat</p>
Coffee break (15:35-16:00)					
<p style="text-align: center;">RONEXT Chair: Elaine Wong (16:00-18:15 Wednesday, July 13)</p>	<p style="text-align: center;">GOWN I Chair: Christina Lim (15:40-17:20 Wednesday, July 13)</p>	<p style="text-align: center;">BigNeO IV Chair: Marc Ruiz (15:20-16:40 Wednesday, July 13)</p>	<p style="text-align: center;">SWP XI Chair: Rafał Kotyński (15:50-17:10 Wednesday, July 13)</p>	<p style="text-align: center;">Quantum Chair: Daryl Beggs (16:20-18:00 Wednesday, July 13)</p>	<p style="text-align: center;">Novel Glasses II Chair: Dominik Dorosz (16:00-18:00 Wednesday, July 13)</p>
<p>16:00 We.D1.1 Reliability performance of optical networks based on programmable ROADMs (Invited) L. Wosinska, M. Furdek, M. Džanko</p> <p>16:20 We.D1.2 Full monitoring for long-reach TWDM passive optical networks based on TRA technique (Invited) Min Cen, Jiajia Chen, V. Moeyaert, P. Mégret, M. Wuilpart</p> <p>16:40 We.D1.3 Wavelength overprovisioning strategies for enhanced optical path restoration (Invited) M. Wang, M. Furdek, L. Wosinska, P. Monti</p> <p>17:00 We.D1.4 RECODIS: Resilient communication services protecting end-user applications from disaster-based failures (Invited) J. Rak, D. Hutchison, E. Calle, T. Gomes, M. Gunkel, P. Smith, J. Tapolcai, S. Verbrugge, L. Wosinska</p> <p>17:20 We.D1.5 Physical layer encryption algorithm for chaotic optical OFDM transmission against chosen-plaintext attacks (Invited) Xuelin Yang, Zanwei Shen, Xiaonan Hu, Weisheng Hu</p> <p>17:40 We.D1.6 A practical layered model for flexible-grid optical networks to reduce the routing complexity (Invited) A. Yayimli</p> <p>18:00 We.D1.7 Routing post-disaster traffic floods heuristics Z.H. Nasralla, M.O.I. Musa, T.E.H. El-Gorashi, J.M.H. Elmirghani</p>	<p>15:40 We.D2.1 Throughput assessment of TCP over distributed WiFi access networks supported by RoF (Invited) A. de Sousa, C.B. Lopes, P.M. Monteiro, M.C.R. Medeiros</p> <p>16:00 We.D2.2 OQAM-OFDM RoF with IM-DD remote heterodyne 28 GHz upconversion for 5G millimetre-wave RANs (Invited) A.T. Latunde, M. Milosavljevic, P. Kourtessis, J. Senior</p> <p>16:20 We.D2.3 Tandem-modulator generated W-band OCDMA radio-over-fiber system (Invited) M. Eghbal M. Shadaram</p> <p>16:40 We.D2.4 Terahertz band for next-generation mobile communications systems (Invited) A. Stöhr, B. Shih, M. Freire, A. Ng'oma, S. Abraha, M. Steeg</p> <p>17:00 We.D2.5 Optical fronthaul technologies for next-generation mobile communications (Invited) Byung Gon Kim, Seong Hyun Bae, Hoon Kim, Yun C. Chung</p>	<p>15:20 We.D3.1 Reoptimizing shortest paths: From state-of-the-art to new recent perspectives (Invited) D. Ferone, P. Festa, A. Napoletano, T. Pastore</p> <p>15:40 We.D3.2 Anycast (re)routing of multi-period traffic in dimensioning resilient backbone networks for multi-site data centers (Invited) Ting Wang, B. Jaumard, C. Develder</p> <p>16:00 We.D3.3 A heuristic algorithm for routing, spectrum, transceiver and regeneration allocation problem in elastic optical networks (Invited) M. Klinskowski, K. Walkowiak</p> <p>16:20 We.D3.4 On the trade-off between maximizing spectral efficiency and minimizing capacity overprovisioning in DWDM networks (Invited) J. Pedro, N. Costa</p>	<p>15:50 We.D4.1 Linear guided waves and solitons sustained by hyperbolic metamaterials under strong optic axis and magneto optic control (Invited) A.D. Boardman, A. Alberucci, I. Nefedov, M. McCall, Y. Rapoport, G. Assanto</p> <p>16:10 We.D4.2 THz polarization control with chiral and bianisotropic metamaterials and metasurfaces (Invited) M. Kafesaki, G. Kenanakis, A.C. Tasolamprou, E.N. Economou, C.M. Soukoulis</p> <p>16:30 We.D4.3 Silicon based metamaterial design with circular ring resonator topology as a near-infrared concentrator (Invited) O.T. Gunduz, C. Sabah, E. Leitgeb</p> <p>16:50 We.D4.4 Resonant combinatorial frequency generation in non-Hermitian hyperbolic metamaterials (Invited) O.V. Shramkova, G.P. Tsironis</p>	<p>16:20 We.D5.1 Quantum systems engineering: A structured approach to accelerating the development of a quantum technology industry (Invited) M.J. Everitt, M.J. de C Henshaw, V.M. Dwyer</p> <p>16:40 We.D5.2 Strategies for bright single photon sources in solid state: Coupled quantum dot cavities and monolayer-based systems (Invited) C. Schneider, Yu-Ming He, S. Unsleber, S. Maier, S. Gerhard, N. Lundt, O. Iff, M. Kamp, S. Höfling</p> <p>17:00 We.D5.3 Silicon quantum photonics (Invited) D. Bonneau</p> <p>17:20 We.D5.4 Waveguide integrated superconducting single-photon detectors (Invited) S. Ferrari, A. Vetter, P. Rath, W.H.P. Pernice</p> <p>17:40 We.D5.5 Photon counting with a 24-pixel SSPD based photon number resolving detector (Invited) A. Gaggero, F. Mattioli, Z. Zhou, R. Gaudio, R. Leoni, A. Fiore</p>	<p>16:00 We.D6.1 Characterising refractive index dispersion in chalcogenide glasses (Invited) Y. Fang, Ł. Sojka, D. Jayasuriya, D. Furniss, Z.Q. Tang, C. Markos, S. Sujecki, A.B. Seddon, T.M. Benson</p> <p>16:20 We.D6.2 Preparation of chalcogenide glasses via plasma-enhanced chemical vapor deposition on the example of As-S system (Invited) L. Mochalov, A. Lobanov, A. Strikovskiy, A. Kostrov, A. Murzanev, A. Nezhdanov, M. Kudryashov, A. Mashin</p> <p>16:40 We.D6.3 Original designs of chalcogenide microstructured optical fibers for mid-IR applications (Invited) J. Troles, C. Caillaud, C. Gilles, L. Provino, M. Carras, M. Brun, J-L. Adam, L. Brilland</p> <p>17:00 We.D6.4 Chalcogenide circuits for the realization of CO₂ micro-sensors operating at 4.23 μm (Invited) C. Vigreux, R. Escalier, R. Kribich, A. Pradel</p> <p>17:20 We.D6.5 Chalcogenide glasses for infrared optics: A new method of elaboration (Invited) L. Calvez, J-L. Adam</p> <p>17:40 We.D6.6 Novel pumping schemes of mid-IR photonic crystal fiber lasers for aerospace applications (Invited) M.C. Falconi, G. Palma, F. Starecki, V. Nazabal, J. Troles, J-L. Adam, S. Taccheo, M. Ferrari, F. Prudenzano</p>
20:00 Gala dinner at Grand Hotel Trento					

Track 1 – ROOM 3	Track 2 – ROOM 7	Track 3 – ROOM 6	Track 4 – ROOM 221	Track 5 – ROOM 223	Track 6 – ROOM 224
<p>ICTON XI Chair: Jacek Rak (8:30-9:50 Thursday, July 14)</p> <p>8:30 Th.A1.1 Spectral reallocation in lightpaths encompassing the most fragmented link of elastic optical networks (<i>Invited</i>) <i>R.V. Fávero, L.H. Bonani, M.L.F. Abbade</i></p> <p>8:50 Th.A1.2 Multicasting versus anycasting: How to efficiently deliver content in elastic optical networks (<i>Invited</i>) <i>M. Aibin, R. Goścień, K. Walkowiak</i></p> <p>9:10 Th.A1.3 A case study of regenerator placement and regenerator assignment in dynamic translucent elastic optical networks (<i>Invited</i>) <i>D.A.R. Chaves, M.A. Cavalcante, H.A. Pereira, R.C. Almeida Jr.</i></p> <p>9:30 Th.A1.4 SDN-enabled flexible optical node designs and transceivers for sustainable metro-access networks convergence (<i>Invited</i>) <i>S. Sarmiento, R. Montero, J.A. Altabas, D. Izquierdo, F. Agraz, A. Pagès, J. Perello, J. Gene, M. Alonso, A. Pascual, I. Garces, S. Spadaro, J.A. Lazaro</i></p> <p>Coffee break (9:50-10:20)</p> <p>MARS Chair: Leo Spiekman (10:20-12:20 Thursday, July 14)</p> <p>10:20 Th.B1.1 Considerations on performance, cost and power consumption of candidate 100G EPON architectures (<i>Invited</i>) <i>Z. Vujicic, A. Shahpari, B. Neto, N. Pavlovic, A. Almeida, A. Tavares, M. Ribeiro, S. Ziaie, R. Ferreira, R. Bastos, A. Teixeira</i></p> <p>10:40 Th.B1.2 Evaluation of the hybrid FTTx/VDSL2-vectoring approach in an access network (<i>Invited</i>) <i>V. Attanasio, A. Valenti, F. Persia, A. Rufini, S. Penna, D. Del Buono, G. Verticale, G. Maier</i></p> <p>11:00 Th.B1.3 Open FTTH networks and digital home-care services: Experiences from the Connected for Health project (<i>Invited</i>) <i>M. Forzati</i></p> <p>11:20 Th.B1.4 Technical and market feasibility of high-speed software-reconfigurable OOFDM/DFMA-based optical transceivers for next generation access network PONs (<i>Invited</i>) <i>R.M. Dorward, M.J. Anderson, R.P. Giddings</i></p> <p>11:40 Th.B1.5 Low-cost 100 Gbps transport solution based on DCO-CFP and G.657.A2 fibre for long-haul WDM transmission (<i>Invited</i>) <i>E. Pincemin, Mengdi Song, Y. Loussouarn, T. Guillossou, N. Evanno, F. Lissillour, L-A. de Montmorillon, P. Sillard</i></p> <p>12:00 Th.B1.6 Impact of node/fiber/WSS degrees in creating cost effective OXCs (<i>Invited</i>) <i>Ken-chi Sato</i></p>	<p>GOWN II Chair: János Ladvánszky (8:30-10:05 Thursday, July 14)</p> <p>8:30 Th.A2.1 Adaptive video streaming and fixed-mobile convergence: A good team to reduce backhaul power consumption and improve users' QoE (<i>Invited</i>) <i>R. Aparicio Pardo, L. Sassatelli</i></p> <p>8:50 Th.A2.2 Assessment of fixed mobile converged backhaul and fronthaul networks (<i>Invited</i>) <i>E. Weis, D. Breuer, S. Krauß</i></p> <p>9:10 Th.A2.3 Optical wireless communications for high-speed in-building personal area networks (<i>Invited</i>) <i>C. Lim, Ke Wang, A. Nirmalathas</i></p> <p>9:30 Th.A2.4 Coherent photonic true-time-delay beamforming system for a phased array antenna receiver (<i>Invited</i>) <i>V.C. Duarte, M.V. Drummond, R.N. Nogueira</i></p> <p>9:50 Th.A2.5 Delay analysis for optical wireless multihop networks <i>F. Knobloch</i></p> <p>Coffee break (10:05-10:40)</p> <p>GOWN III Chair: Paulo Monteiro (10:40-11:55 Thursday, July 14)</p> <p>10:40 Th.B2.1 Minimizing latency of periodic monitoring traffic in smart body area networks (SmartBANs) (<i>Invited</i>) <i>E. Wong, L. Ruan, M.P.I. Dias</i></p> <p>11:00 Th.B2.2 Dispersion and off-set filtering in RSOA based networks (<i>Invited</i>) <i>E. Udvary, Á. Schranz, B. Matolcsy</i></p> <p>11:20 Th.B2.3 Frequency invariance in a new allocation scheme for optical communications (<i>Invited</i>) <i>J. Ladvánszky</i></p> <p>11:40 Th.B2.4 Experimental comparison of simultaneous transmission of LTE A multi band and Gigabit/s 4 PAM signals up to 50 m of large core graded-index POF <i>F. Forni, Y. Shi, H.P.A. van den Boom, E. Tangdiongga, A.M.J. Koonen</i></p>	<p>FiWiN5G II Chair: Paolo Ghelfi (8:30-9:45 Thursday, July 14)</p> <p>8:30 Th.A3.1 FiWiN5G – Fiber-Wireless integrated Networks for 5th Generation delivery (<i>Invited</i>) <i>J.E. Mitchell</i></p> <p>8:50 Th.A3.2 Optical radio convergence infrastructure for communications and power delivering (ORCIP) (<i>Invited</i>) <i>P.P. Monteiro, A. Gameiro, N. Borges Carvalho</i></p> <p>9:10 Th.A3.3 Converged optical-wireless access networks enabling fixed and 60 GHz connectivity in WDM-PONs (<i>Invited</i>) <i>D. Tsiokos, C. Mitsolidou, C. Vagionas, G. Kalfas, A. Miliou, N. Pleros</i></p> <p>9:30 Th.A3.4 A Markov model combining handover algorithms with call admission control policies in vehicular RoF networks at 60 GHz <i>N.D. Tselikas</i></p> <p>Coffee break (9:45-10:10)</p> <p>GOC Chair: Lena Wosinska (10:10-12:15 Thursday, July 14)</p> <p>10:10 Th.B3.1 Energy consumption of communication systems using integrated nanophotonic devices (<i>Invited</i>) <i>G. Castanon, A. Atabaki, R. Ram</i></p> <p>10:30 Th.B3.2 Optimal sustainable management of backbone networks (<i>Invited</i>) <i>L. Amorosi, L. Chiaraviglio, P. Dell'Olmo, M. Listanti</i></p> <p>10:50 Th.B3.3 Server-centric PON data center architecture (<i>Invited</i>) <i>A. Hammadi, T.E.H. El-Gorashi, M.O.I. Musa, J.M.H. Elmirghani</i></p> <p>11:10 Th.B3.4 Energy efficient resource provisioning with VM migration heuristic for disaggregated server design (<i>Invited</i>) <i>H.M.M. Ali, A.M. Al-Salim, A.Q. Lawey, T. El-Gorashi, J.M.H. Elmirghani</i></p> <p>11:30 Th.B3.5 Energy-efficient software-defined AWGR-based PON data center network <i>A. Hammadi, T.E.H. El-Gorashi, J.M.H. Elmirghani</i></p> <p>11:45 Th.B3.6 A framework for energy efficient NFV in 5G networks <i>A. Al-Quzweeni, A. Lawey, T. El-Gorashi, J.M.H. Elmirghani</i></p> <p>12:00 Th.B3.7 Network coding for energy efficiency in bypass IP/WDM networks <i>M.O.I. Musa, T.E.H. El-Gorashi, J.M.H. Elmirghani</i></p>	<p>NetOrch I Chair: Isabella Cerutti (8:30-9:50 Thursday, July 14)</p> <p>8:30 Th.A4.1 The software defined transport network: Fundamentals, findings and futures (<i>Invited</i>) <i>D. King, C. Rotsos, A. Aguado, N. Georgalas, V. Lopez</i></p> <p>8:50 Th.A4.2 SDN application-centric orchestration for multi-layer transport networks (<i>Invited</i>) <i>F. Pederzoli, D. Siracusa, P. Sköldström, S. Junique, Č. Rožić, D. Klonidis, T. Szyrkowicz, M. Chamanía, V. Uceda, V. Lopez, Y. Shikhmanter, O. Gerstel</i></p> <p>9:10 Th.A4.3 Demonstration of SDN-based orchestration for multi-domain segment routing networks (<i>Invited</i>) <i>N. Kukreja, R. Alvizu, A. Kos, G. Maier, R. Morro, A. Capello, C. Cavazzoni</i></p> <p>9:30 Th.A4.4 Managing services in the telecom cloud: An example for CDN (<i>Invited</i>) <i>L. Velasco</i></p> <p>Coffee break (9:50-10:20)</p> <p>NetOrch II Chair: Andrea Fumagalli (10:20-11:40 Thursday, July 14)</p> <p>10:20 Th.B4.1 Scalable network management and control for dynamic agile optical flows (<i>Invited</i>) <i>V.W.S. Chan</i></p> <p>10:40 Th.B4.2 The ACTION project: Application Coordinating with Transport, IP and Optical Networks (<i>Invited</i>) <i>N. Yamanaoka, S. Okamoto, Y. Imakiire, M. Arase, E. Oki, M. Veeraraghavan</i></p> <p>11:00 Th.B4.3 Dynamic operation of an IP/MPLS-over-WDM network using an open-source active stateful BGP-LS-enabled multilayer PCE (<i>Invited</i>) <i>J-L. Izquierdo-Zaragoza, J-J. Pedreno-Manresa, P. Pavon-Marino, Ó. González de Dios, V. López</i></p> <p>11:20 Th.B4.4 Network and datacenter resource orchestration strategies for mobile virtual networks over telco clouds (<i>Invited</i>) <i>B. Martini, M. Gharbaoui, I. Cerutti, P. Castoldi</i></p>	<p>DCN I Chair: Lena Wosinska (8:30-10:05 Thursday, July 14)</p> <p>8:30 Th.A5.1 Extended range 100 Gigabit Ethernet (<i>Invited</i>) <i>L. Spiekman</i></p> <p>8:50 Th.A5.2 Scaling multimode fibre IM/DD transmission capacity through spatial-spectral multiplexing (<i>Invited</i>) <i>C.P. Tsekrekos, N.G. Varithimiadis, D.I. Kassos, D. Syvridis, S. Sygletos</i></p> <p>9:10 Th.A5.3 A flexible optical network architecture providing enhanced performance to data centres (<i>Invited</i>) <i>N. Panahi, D. Careglio, J. Solé-Pareta</i></p> <p>9:30 Th.A5.4 Optimal resource allocation in hybrid packet/optical circuit switched networks (<i>Invited</i>) <i>Weiqiang Sun, Zhangxiao Feng, Weisheng Hu</i></p> <p>9:50 Th.A5.5 Large-scale optical datacentre networks using hybrid fibre delay line buffers and packet retransmission <i>Jingyan Wang, C. McArdle, L.P. Barry</i></p> <p>Coffee break (10:05-10:30)</p> <p>DCN II Chair: Jiajia Chen (10:30-12:00 Thursday, July 14)</p> <p>10:30 Th.B5.1 Bandwidth allocation in the NEPHELE hybrid optical interconnect (<i>Invited</i>) <i>K. Christodouloupoulos, K. Kontodimas, K. Yiannopoulos, E. Varvarigos</i></p> <p>10:50 Th.B5.2 The Hi-Ring architecture for datacentre networks (<i>Invited</i>) <i>M. Galili, V. Kamchevska, Yunhong Ding, L.K. Oxenløwe</i></p> <p>11:10 Th.B5.3 Ring versus bus topology: A network performance comparison of photonic integrated NoC (<i>Invited</i>) <i>I. Cerutti, A.M. Behredin, N. Andriolli, O. Liboiron Ladouceur, P. Castoldi</i></p> <p>11:30 Th.B5.4 Greening big data networks: Volume impact <i>A.M. Al-Salim, H.M.M. Ali, A.Q. Lawey, T. El-Gorashi, J.M.H. Elmirghani</i></p> <p>11:45 Th.B5.5 Pulse amplitude modulation applied to extended passive optical pod interconnect, for small energy-aware data centers <i>B. Dumas Feris, P. Gravey, M-L. Moulinard, P. Morel, M. Morvan, A. Sharaiha</i></p>	<p>Novel Glasses III Chair: Anna Łukowiak (8:30-10:05 Thursday, July 14)</p> <p>8:30 Th.A6.1 Oxyfluoride glass and glass ceramics doped with Er³⁺, Yb³⁺ and Nd³⁺ for near-infrared applications (<i>Invited</i>) <i>T.S. Gonçalves, M. de Oliveira, H. Eckert, A.S.S. de Camargo</i></p> <p>8:50 Th.A6.2 Rare-earth doped optical fibers with nano-phase glass-ceramic structures (<i>Invited</i>) <i>J. Zmojda, M. Kochanowicz, P. Miluski, A. Lukowiak, W.A. Pisarski, J. Pisarska, M. Marciniak, M. Ferrari, G. Righini, M. Sitarz, D. Dorosz</i></p> <p>9:10 Th.A6.3 Dy³⁺ doped ZBLAN fiber amplifier pumped by a single frequency 1064 nm laser for mid infrared applications (<i>Invited</i>) <i>T.T. Fernandez, Y. Wang, A. Gambetta, N. Coluccelli, P. Laporta, G. Galzerano</i></p> <p>9:30 Th.A6.4 Numerical modelling of lanthanide-ion doped fibre lasers operating within mid-infrared wavelength region (<i>Invited</i>) <i>Ł. Sójka, D. Furniss, Z. Tang, H. Sakr, E. Barney, T.M. Benson, A.B. Seddon, S. Sujecki, K. Scholle, S. Lamrini, P. Fuhrberg</i></p> <p>9:50 Th.A6.5 Rare earth-doped barium gallo-germanate glasses for broadband near-infrared luminescence <i>M. Kowal, J. Pisarska, M. Kochanowicz, J. Zmojda, J. Dorosz, D. Dorosz, W.A. Pisarski</i></p> <p>Coffee break (10:05-10:30)</p> <p>Novel Glasses IV Chair: Francesco Prudenano (10:30-12:25 Thursday, July 14)</p> <p>10:30 Th.B6.1 True mid-infrared Pr³⁺ absorption cross-section in a selenide-chalcogenide host-glass (<i>Invited</i>) <i>A.B. Seddon, D. Furniss, Z.Q. Tang, Ł. Sojka, T.M. Benson, R. Caspary, S. Sujecki</i></p> <p>10:50 Th.B6.2 Novel nanomaterial-based saturable absorbers for ultrashort-pulsed mid-infrared waveguide chip lasers (<i>Invited</i>) <i>A. Fuerbach, X. Jiang, S. Gross, H. Zhang, Z. Guo, F. Rotermund, D. Yeom, M.J. Withford</i></p> <p>11:10 Th.B6.3 Materials approaches to mitigating parasitic effects in optical networks: Towards the perfect optical fiber (<i>Invited</i>) <i>J. Ballato, P. Dragic</i></p> <p>11:30 Th.B6.4 The use of ion beam techniques for the fabrication of integrated optical elements (<i>Invited</i>) <i>I. Bányász, S. Berneschi, M. Fried, V. Havranek, N.Q. Khanh, G.U.L. Nagy, A. Németh, G. Nunzi-Conti, S. Pelli, I. Rajta, C. Righini, E. Szilágyi, M. Veres, Z. Zolnai</i></p> <p>11:50 Th.B6.5 Concentration dependence of the infrared photoluminescence of Pr³⁺ in fluorindate glasses (<i>Invited</i>) <i>S.J.L. Ribeiro, G. Galleani, L. Fortes, D. Manzani, R.A.S. Ferreira, L.D. Carlos</i></p> <p>12:10 Th.B6.6 Photoluminescence spectroscopy of rare earth doped materials: Why measure at the quantum limit? <i>R. Fenske, G. Arnaoutakis</i></p>
PLENARY (Thursday, July 14, 12:30-12:50) Auditorium					
12:30 Th.C.1 Challenges and future trends in fiber lasers (<i>Invited</i>) Stefano Taccheo, K. Schuster, M. Ferrari, A. Seddon, M. Marciniak, C. Taudt, J. Troles, G. Valentini, D. Dorosz, F. Prudenano, M. Jaeger, C. Dandrea, M. Ivanda, A. Chiasera, S. Sujecki, V. Nazabal, D. Comelli, H. Baghdasaryan, T. Baselt, P. Hartmann, A. Lucianetti, P. Peterka, A. Klotzbach, J.L. Adam, and H. Gebavi					
(Thursday, July 14, 12:50) Closing Ceremony and Announcement of ICTON 2017 Auditorium					
13:10 Lunch					