Explanation of Session Codes

Oral 1-2 B-3

- Day of the Conference
- Session Number (4 sessions a day)
- Room
- Presentation Order
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<th>Room A: 4401 Fiber-Based Technologies and Applications</th>
<th>Room B: 4403 Fiber Mode Manipulation</th>
<th>Room C: 4405 Fiber Grating Sensors</th>
<th>Room D: 4501 Nanofabrication Technologies</th>
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<td>Presider: Lei Wei</td>
<td>Presider: Kunimasa Saitoh</td>
<td>Presider: Qizhen Sun</td>
<td>Presider: Guillaume Vienne</td>
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</tbody>
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**Room A: 4401 Fiber-Based Technologies and Applications**

- **14:00–14:45 Oral 1-3A-1**
  - **Keynote**
  - Gas, Glass & Light: 25 Years Of Photonic Crystal Fibres
    - Philip Russell
    - Max Planck Institute for the Science of Light

- **14:45–15:15 Oral 1-3A-2 Invited**
  - Semiconductor-core Fibers
    - Ursula Gibson
    - NTNU

- **15:15–15:45 Oral 1-3A-3 Invited**
  - Metamaterials Fabricated By Fibre Drawing
    - Simon Fleming, Alessio Stefani, Juliana Hayashi, Boris Kuhlme
    - Univ of Sydney

- **14:00–14:30 Oral 1-3B-1 Invited**
  - Harnessing Mode-selective Nonlinear Optics For Optical And Microwave Signal Processing
    - Lawrence Chen, Ming Ma, Rhys Adams
    - McGill Univ

- **14:30–14:45 Oral 1-3B-2**
  - Design Of 14-Mode Polarization-Maintaining Ring-Core Fiber For Spatial Division Multiplexing
    - Yuan Cao, Xiaosong Yu, Yongli Zhao, Jiawei Zhang, Chuan Liu, Bingli Li, Jie Zhang
    - Beijing Univ of Posts and Telecommunications

- **14:45–15:00 Oral 1-3B-3**
  - 6-Modes X 19 Cores Graded Index Multicore Fiber For Dense Space Division Multiplexing
    - Jose Enrique Antonio-Lopez, Carlos Alvarado-Zacarias, Zahoora Sanjabi Eznaveh, Ning Wang, He Wen, John Van Weerdenburg, Chigo Okankwo, Adrian Amezua Correa, Koen De Jongh, Mariane Bigot-Astur, Guifang Li, Axel Schulzgen, Pierre Sillard, Rodrigo Amezua Correa
    - CREOL, the College of Optics & Photonics

- **15:00–15:30 Oral 1-3B-4 Invited**
  - The Photonic Lantern: Multimode Photonic Convertors
    - Sergio Leon-Saval
    - Univ of Sydney

**Room B: 4403 Fiber Mode Manipulation**

- **14:00–14:30 Oral 1-3C-1 Invited**
  - Shock Wave Measurements With Fiber Bragg Gratings
    - Ehud Shafir, Garry Berkovic, Alex Fedotov-Gefen, Avi Ravid, Shlomi Zilberman, Yoanathan Schweitzer
    - Soreq NRC

- **14:30–15:00 Oral 1-3C-2 Invited**
  - Surface Mounted Polyimide-coated FBG By High Temperature Epoxies
    - Bo Dong, Emily Jianzhong Hao, Xufeng Yang, Hui Dong, Yixin Wang, Aayush Madan
    - Institute for Infocomm Research, A*STAR

- **15:00–15:15 Oral 1-3C-3**
  - Precision Enhancement Of Fiber Bragg Grating Sensor In High-low Temperature Alternatively Environment For Aerospace Application
    - Xuezi Zhang, Junfeng Jiang, Shuang Wang, Chuanjun Zang, Renwei Xie, Tiegen Liu
    - Tianjin Univ

- **15:15–15:30 Oral 1-3C-4**
  - A Light Intensity Monitoring Method Using FBG-based Fiber Optic Sensor
    - Zuorui Liu, Weiran Feng, Zhiqiao Zhang, Luming Li, Zhimin Cai, Hu Zhenyan
    - Nanchang Univeristy

- **15:30–15:45 Oral 1-3C-5**
  - Highly Sensitive Strain Sensor Based On Fiber Microstructures Associated With Coherent Detection
    - Wei Zhang, Fan Ai, Yang Xiang,

**Room C: 4405 Fiber Grating Sensors**

- **14:00–14:30 Oral 1-3D-1 Invited**
  - Micro/nano Manufacturing For Flexible Functional Devices: Systems And Applications
    - Linsen Chen
    - Soochow University

- **14:30–14:45 Oral 1-3D-2**
  - Grayscale Photolithography With Phase Change Material Photomasks
    - Qian Wang, Guanghui Yuan, Behrad Gholipour, Edward T. F. Rogers, Kun Huang, Soo Seng Ang, Nikolay I. Zheludev, Jinghua Teng
    - IMRE, A*STAR

- **14:45–15:00 Oral 1-3D-3**
  - Silver Film Deposited Over Large-area Self-assembled Array Of Silica Nanospheres As Ultrasensitive SERS Substrate
    - Xu Hou, Qi Wang, Guoming Mao, Hao Liu
    - Beijing Univ of Posts and Telecommunications

- **15:00–15:15 Oral 1-3D-4**
  - Heating And Nanopatterning Of A Metallic Film By Pulsed Illumination Through A Polymer Stamp Containing Gold Particles
    - Guillaume Vienne, Zhenying Pan, Yefeng Yu, Vytautas Valuckas, Ramon Paniagua-Dominguez, Paul Clerico, Arseniy Kuznetsov
    - Data Storage Institute

- **15:15–15:30 Oral 1-3D-5**
  - Double-sided Microlens And Spatial Filter Array For Maskless Lithography Based On Digital Micromirror Device (DMD)
    - Duc Hanh Dinh, Hung Liang Chien,
Room E: 4503
Photonics Devices - Manipulation of Optical Modes
Presider: Ching Eng Jason Png

14:00–14:30
Oral 1-3E-1
Invited

Power Monitoring And Feedback Control Of Microring Resonators
Andy Knights
McMaster Univ

14:30–14:45
Oral 1-3E-2

Micro-ring Resonator Quality Factor And Extinction Ratio
Enhancement Via Integrated Fabry-Perot Cavity
Jiayang Wu, Tania Moein, Xingyuan Xu, Guanghui Ren, Arnan Mitchell, David Moss
Swinburne Univ of Technology

14:45–15:00
Oral 1-3E-3

High-order Filters Based On Three High-Q Microtoroid Cavities
Qian Hua, Chao Yang, Xiaoshun Jiang, Min Xiao
Nanjing Univ

15:00–15:15
Oral 1-3E-4

Mirror-symmetric Fano-like Resonances Based On An Add-Drop Microring Resonator Interferometer On A Silicon Chip
Simin Li, Lei Zhao, Lugang Wu, Shilong Pan

Room F: 4505
Rare-Earth-Doped Fibres on the 30th Anniversary of the EDFA I
Presider: Mikalis Zervas

14:00–14:30
Oral 1-3F-1
Invited

The Doped-Fibre Journey and The EDFA
David Payne
Univ of Southampton

14:30–14:50
Oral 1-3F-2
Invited

Invention Of LD-pumped EDFA And Their Applications From Soliton To Coherent Nyquist Pulse Transmission
Masatake Nakazawa
Tohoku Univ

14:50–15:10
Oral 1-3F-3
Invited

Erbium Doped Fiber Amplifiers For Space-division-multiplexed Systems
Shaif-ul Alam, Yongmin Jung, Saurabh Jain, David Richardson
Univ of Southampton

Room G: 4301
Advanced Lasers and Applications I
Presider: Hongda Chen

15:00–15:15
Oral 1-3G-3

Ernesto and Davide Difiglio
The Laser Processing Institute

15:15–15:30
Oral 1-3G-4

Band Engineering Of Indirect Band GainP: Enhancement Of Green-Light Emission
Cong Wang, Bing Wang, Soon-Fatt Yoon, Jurgen Michel
Nanyang Technological Univ

Room H: 4201
High Power, High Energy Lasers I
Presider: Wenn Jing Lai

15:00–15:15
Oral 1-3H-1
Invited

Advances In High Power Random Fiber Lasers
Pu Zhou, Jun Ye, Long Huang, Hanwei Zhang, Jiangmin Xu, Jian Wu, Hu Xiao, Jinyong Leng
National Univ of Defense Technology

15:15–15:30
Oral 1-3H-2
Invited

Mid-infrared Fibre Sources: New Power Levels, Wavelengths And Modes Of Operation
Stuart Jackson
Macquarie Univ

15:30–15:45
Oral 1-3H-3

Coherent Pulse Stacking With Delay Lines
Henrik Tunnermann, Akira Shirakawa
Univ of Electro-Communications

15:45–15:50
Oral 1-3H-4

A 621 W Linearly Polarized, Near-diffraction-limited MOPA Seeded By Random Fiber Laser
Long Huang, Jiangming Xu, Jun Ye, Xiaodong Liu, Hanwei Zhang, Xiaolin Wang, Pu Zhou

Reconfigurable On-chip Two-mode Multiplexed System
Yu Yu
Huazhong Univ of Science and Technology

15:15–15:45
Oral 1-3E-5
Invited

Halide Perovskites
Evgueni Dianov
FORC RAS

15:30–15:50
Oral 1-3F-5
Invited

The Novel Photophysics Of Halide Perovskites

On Amplified Transmission And Nonlinear Bandwidth Limits
Rene-Jean Essiambre
Alcatel Lucent

Lasing Characteristics Of 1.3-um Npn-AlGaNAs/InP Transistor Laser With Reduced Base-Bandgap Energy
Shoichi Yoshitomi, Shotaro Tadano, Kentaro Yamanaka, Nobuhiko Nishiyama, Shigea Arai
Tokyo Institute of Technology

15:30–15:45
Oral 1-3G-5

High-Efficiency Pulsed Tm-Doped Fiber Amplifier
Xiaoxi Jin, Biao Sun, Junhua Ji, Jiaqi Luo, Qijie Wang, Pu Zhou, Xia Yu
Precision Measurements Group, Singapore Institute of Manufacturing Technology

15:45–16:00
Oral 1-3H-6

Single Stage Nonlinear Compression Of A Bandwidth-optimized High Energy Yb-doped Fiber Laser Source
Loic Lavenu, Michele Natile, Florent Guichard, Quentin Mocaire, Yoann Zaouter, Eric Mottoy
Laboratoire Charles Fabry

### Room I: 4812 Perovskite Materials and Devices I
**Presider: Zexiang Shen**

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<tr>
<td>14:30–15:00</td>
<td>1-3I-2</td>
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<tr>
<td>15:00–15:30</td>
<td>1-3I-3</td>
<td>Invited</td>
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Synthesis And Optical Applications Of Low-dimensional Metal-halide Perovskites
Qiaoliang Bao, Yupeng Zhang, Ziyu Wang
Monash Univ

14:00–14:30
Oral 1-3I-1
Invited

Probing Light-Matter Interactions In Perovskite Crystals
Qihua Xiong
Nanyang Technological Univ

14:30–14:45
Oral 1-3J-2

High-Efficiency Metasurfaces For Surface Plasmon Coupling And Photonic Spin-Hall Effect
Lei Zhou
Fudan Univ

14:45–15:00
Oral 1-3J-3

Dielectric Metasurfaces For Beam Bending And Near-unity Numerical Aperture Lenses
Egor Khaidarov, Ramon Paniagua-Dominguez, Ye Feng Yu, Hanfang Hao, Yuan Hsing Fu, Xinan Liang, Reuben Bakker, Vytautas

15:15–15:30
Oral 1-3K-3

A Holding-time-aware Routing And Spectrum Allocation Algorithm In Elastic Optical Network
Futao Yang, Lei Wang, Xue Chen, Yang Zhao, Jie Zhang

14:45–15:15
Oral 1-3K-2
Invited

Highly-Survivable Elastic Optical Networking
Masahiko Jinna, Tomohiko Takagi
Kagawa Univ

15:45–15:50
Oral 1-3K-1
Keynote

New Horizons For Optical Networks
Vincent Chan
MIT

### Room J: 4912 Plasmonics and Metamaterials I
**Presider: Yuri Kivshar**

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Nonlinear Optics With Metamaterials And Metasurfaces
Anatoly Zayats
Kings College London

14:00–14:30
Oral 1-3J-1
Invited

Silicon-rich Nitride Waveguides For Broadband Nonlinear Signal Processing
Victor Torres-Company, Attila Fulop, Peter Andrekson, Kruckel Clemens
Chalmers Univ of Technology

14:30–14:45
Oral 1-3L-2

Ultrafast Optical Switching With Enhanced Nonlinearity From Black Phosphorus
Md Siam Uddin, Pulak Chandra Debnath, Kichul Park, Yong-Won Song
Korea Institute of Science and Technology

14:45–15:00
Oral 1-3L-3

A Novel Photonic Microwave Down-Converter Based On...
Efficient Perovskite Photovoltaic-Thermoelectric Hybrid Device
Yan Xiong, Ling Xu, Yue Hu
Huazhong Univ of Science and Technology

Polarization Sensitive Perfect Absorber Based On Plasmonic Grating
Duc Minh Nguyen, Gwanho Yoon, Dassol Lee, Rho Junsuk
Pohang Univ of Science and Technology

Field-Effect Tunable Epsilon-Near-Zero Perfect Absorbers
Aleksei Anopchenko, Long Tao, Howard Wai
Baylor Univ

Harnessing Optical Loss For Unique Microlaser Functionality - Orbital Angular Momentum Microlaser
Liang Feng, Pei Miao, Zhifeng Zhang, Jingbo Sun, Wiktor Walasik, Natalia Litchinitser, Stefano Longhi
SUNY Buffalo

Photoluminescence Imaging Based Nano-positioning Of Single Quantum Dots For High-performance Single-photon Generation
Jin Liu, Yu-ming He, Luca Sapienza, Kumarasiri Kontrasingh, Stephan Gerhardt, Jose Vinicius Miranda Cardoso, Jin Dong Song, Antonio Badolato
National Institute of Standards and Technology

Detection Efficiency Measurement Of Optical Transition Edge Sensor Based On Correlated Photon Pairs Generated Via Spontaneous FWM In Fiber
Daiji Fukuda, Ryo Kobayashi, Akio Yoshizawa, Kazuki Niwa, Kaori Hattori, Takayuki Numata, Shuichiro Inoue
NMIJ/AIST, Nihon Univ
### Room Q: 4712
**Terahertz Science, Technology and Applications I**

**Presider:** Yu Luo

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<td>14:00-14:30</td>
<td>Invited</td>
<td><strong>Terahertz Metasurfaces And Their Potential Applications</strong> by Yongchao Yu, Delong Ma, Guoying Feng, Beijing Univ of Technology</td>
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### Room R: 4713
**Advances in Structured Light I**

**Presider:** Jian Wang

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<td>14:00-14:20</td>
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<td><strong>The Rotational Doppler Shift And The Reversal Of Angular</strong> by Weiming Yao, Bo Huo, Huiming Wu, Zhongbin Li, Zhiyuan Chen, Yongji He, Peking Univ</td>
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### Room S: 4811
**Photonics Technologies for Primary Point-of-care and Global Health I**

**Presider:** Gerd Keiser

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<td>14:00-14:30</td>
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<td><strong>Highly Integrated 100G-400Gb Optical Module Certification</strong> by Jinyu Mo, Huawei Technology Co., Ltd</td>
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### Room T: 4911
**Spectroscopy for Diagnosis**

**Presider:** Fake Lu

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<td><strong>Assessment of Wound Re-epithelialization by UV</strong> by Weiming Yao, Bo Huo, Huiming Wu, Zhongbin Li, Zhiyuan Chen, Yongji He, Peking Univ</td>
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Oral 1-3Q-2
Invited
Laser Terahertz Emission Microscope
Masayoshi Tonouchi
Osaka Univ

15:00–15:30
Oral 1-3Q-3
Invited
Extreme Nonlinear Optics In Graphene In The Terahertz Range
Ryo Shimano
Cryogenic Research Center, The Univ of Tokyo

14:20–14:40
Oral 1-3R-2
Invited
Structured Light Beams For Probing And Sensing
Juan Torres
Universitat Politecnica de Catalunya

14:40–15:00
Oral 1-3R-3
Invited
Optical Metrology With Spatially Structured Optical Fields
Martin Lavery
Univ of Glasgow

15:00–15:20
Oral 1-3R-4
Invited
Detection Of Photonic Orbital Angular Momentum With Micro And Nano Optical Structures
Qiwen Zhan
Univ of Dayton

15:20–15:40
Oral 1-3R-5
Optical Angular Momentum Establishes Structured Materials
Takashige Omatsu
Chiba Univ

14:30–14:45
Oral 1-3S-2
Functional Optical Coherence Tomography On In-vivo Human Skin With Cellular Resolution
Yen-Hung Lin, Rajendran Soundararajan, Jeng-Wei Tjiu, Pinghui Yeh, Sheng-Lung Huang
National Taiwan Univ

14:45–15:15
Oral 1-3S-3
Invited
Deep Single Cell Imaging - An Optical Time-Stretch Approach And Beyond
Kevin Tsia
The Univ of Hong Kong

15:15–15:30
Oral 1-3S-4
Pressure-driven Particle Focusing In Lab-on-a-chip Flow Cytometers: The Choice Between Sheath-assisted And Inertial Focusing
Nishta Panwar, Peiyi Song, Kentye Yong, Swee Chuan Tjin
Nanyang Technological Univ

15:30–16:00
Oral 1-3S-5
Invited
Battery-Powered LED-Based PDT System For Early Oral Cancer Treatment In The Global Health Setting
Hui Liu
Cornell Univ

14:35–14:50
Oral 1-3T-3
Raman, Reflectance And Fluorescence Spectroscopy For The Noninvasive Diagnosis Of Skin Cancer
Austin Moy, Xu Feng, Hieu Nguyen, Yao Zhang, Mia Markey, Jason Reichenberg, James Tunnell
Univ of Texas at Austin

14:50–15:05
Oral 1-3T-4
A Light-weight Near Infrared Fluorescence Endoscope Based On A Single Color Camera: A Proof-of-concept Study
Ji Qi, Elham Nabavi, Yang Hu, Daniel Whippey, Angharad Curtis, Chris Price, Nigel Copner, Caumaghan Sannassy, Maria Leiloglou, Daniel Leff, George Hanna, Daniel Elson
Imperial College London

15:05–15:25
Oral 1-3T-5
Invited
Photodynamic Therapy Combining With Differentiation-promoting Agent May Enhance Therapeutic Efficacy For Pancreatic Adenocarcinoma
Yan Baglo, Sriram Anbil, Huang-Chiao Huang, Mans Broekgaarden, Imran Rizvi, Edward V. Maytin, Antonio Ortega-Martinez, Juan Pablo Padilla-Martinez, Maura Williams, William Farinelli, Richard Rox Anderson, Waffle Franco
Harvard Medical School

15:25–15:40
Oral 1-3T-6
Fluorescence Excitation Imaging
Ying Wang, Antonio Ortega-Martinez, Juan Pablo Padilla-Martinez, Maura Williams, William Farinelli, Richard Rox Anderson, Waffle Franco
Harvard Medical School
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<td><strong>Distributed Fiber Optic Sensing Technologies</strong></td>
<td><strong>Novel Wavefront Sensing Technologies</strong></td>
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<td><strong>Presider: Sergio Leon-Saval</strong></td>
<td><strong>Presider: Emily Jian Zhong Hao</strong></td>
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### Oral 1

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### Room A: 4401

**Hollow Core Fibers For Beam Delivery: Recent Advances**
Jonathan Knight
Univ of Bath

### Room B: 4403

**Understanding Antiresonant Guidance On The Basis Of Planar Interface Reflection**
Matthias Zeisberger, Markus A. Schmidt
Leibniz Institute of Photonic Technology

### Room C: 4405

**The Origin Of Optical Background Noise In Phase-sensitive Optical Time Domain Reflectometry And Its Suppression Methods**
Xuping Zhang, Yinxin Zhang, Feng Wang, Yuanyuan Shan, Zhenhong Sun, Yanzhu Hu
Nanjing Univ

### Room D: 4501

**Symiton: Indispensable Participator In Electron-photon Interactions And Probably A Kind Of Dark Matter**
Xiaomin Ren
Beijing Univ of Posts and Telecommunications

### Room A: 4401

**Understanding Antiresonant Guidance On The Basis Of Planar Interface Reflection**
Matthias Zeisberger, Markus A. Schmidt
Leibniz Institute of Photonic Technology

### Room B: 4403

**Low Differential Modal Gain Multimode Optical Fiber Amplifiers**
Nicolas Fontaine, Enrique Antonio Lopez, Roland Ryf, Juan Carlos Alvarado Zacarias, Haoshuo Chen, Zeinab Sanjabi Esmaveh
Nokia Bell Labs

### Room C: 4405

**Multi-channel Mode Converters Based On In-line Fiber Modal Interferometer**
Guolu Yin, Changle Wang, Yunhe

### Room D: 4501

**Symiton: Indispensable Participator In Electron-photon Interactions And Probably A Kind Of Dark Matter**
Xiaomin Ren
Beijing Univ of Posts and Telecommunications
### Oral 1: 17:00 - 18:00

#### Room E: 4503
**Photonic Devices - Coupling Light and Fabrication**
**Control**
**Presider:** Ching Eng Jason Png

- **16:15–16:45** Oral 1-4E-1
  - Germanium-based Devices For Silicon Photonics
    - Jurgen Michel  
    - MIT
- **16:15–16:45** Oral 1-4E-2
  - Thermally Expanded Core Fibers Of 4-um Mode Field Diameter For Low Loss Coupling With Silicon Photonic Devices
    - Takuya Oda, Keisuke Hirakawa, Kentaro Ichii, Satoshi Yamamoto, Kazukiho Aikawa, Fujikura Ltd.
- **16:45–17:00** Oral 1-4E-3
  - Study Of Inter-die Fabrication Uniformity Of Silicon Photonic Fiber-to-waveguide Edge Couplers
    - Jun Rong Ong, Thomas Ang, Soon Thor Lim, Ching Eng Png, Tina Guo, Hong Wang  
    - HRPC

#### Room F: 4505
**Rare-Earth-Doped Fibres on the 30th Anniversary of the EDFA II**
**Presider:** Wood-Hi Cheng

- **16:15–16:35** Oral 1-4F-1
  - Doped Fibers for High Power Applications
    - Volker Reichel  
    - Leibniz-Institut für Photonische Technologien e.V.
- **16:35–16:55** Oral 1-4F-2
  - Fibre Sources Using Fluoride Or Chalcogenide Glass
    - Stuart Jackson  
    - Macquarie Univ
- **17:00–17:30** Oral 1-4F-3
  - Study Of Inter-die Fabrication Uniformity Of Silicon Photonic Fiber-to-waveguide Edge Couplers
    - Jun Rong Ong, Thomas Ang, Soon Thor Lim, Ching Eng Png, Tina Guo, Hong Wang  
    - HRPC

#### Room G: 4301
**Advanced Materials and Devices for Infrared Photodetection**
**Presider:** Daohua Zhang

- **16:15–16:45** Oral 1-4G-1
  - Preparation And Performance Of Mn-Co-Ni-O Thin Films
    - Zhiming Huang  
    - Shanghai Institute of Technical Physics, Chinese Academy of Sciences
- **16:45–17:00** Oral 1-4G-2
  - Integrated Near-Infrared Photodetector Based On Colloidal HgTe Quantum Dot Loaded Plasmonic Waveguide
    - Bingqing Zhu, Mengyu Chen, Stephen V. Kershaw, Andrey L. Rogach, Ni Zhao, Hon Ki Tsang  
    - The Chinese Univ of Hong Kong
- **17:00–17:15** Oral 1-4G-3
  - Waveguide Avalanche Photodetector Using Quantum-dot Superlattice For Optical Fiber Communications
    - Toshimasa Umezawa, Kouichi Akahane, Atsushi Matsumoto, Atsushi Kanno, Naokatsu Yamamoto, Tetsuya Kawanishi  
    - NICT

#### Room H: 4201
**High Power, High Energy Lasers II**
**Presider:** David Lancaster

- **16:15–16:45** Oral 1-4H-1
  - Latest Advance In Fused Fiber Components For High Power Fiber Laser And Medical Probe Applications
    - Baishi Wang  
    - Thorlabs Vytran Division
- **16:45–17:00** Oral 1-4H-2
  - The Performance Improvement Of SGII-Up Laser Facility
    - Yanqi Gao  
    - Shanghai Institute of laser plasma
- **17:00–17:15** Oral 1-4H-3
  - Latest Achievements At The J-KAREN-P Laser Facility At QST
    - Hiromitsu Kiriyama, Mamiko Nishiuchi, Alexander Pirozhkov, Hironao Sakaki, Nicholas Dover, Akito Sagisaka, Kotaro Kondo, Keita Nishitani, Yuji Fukuda, Koichi Ogura  
    - National Institutes for Quantum and Radiological Science and Technology (QST)

### Oral 1: 17:15 - 18:00

#### Room E: 4503
**Hollow Core Inhibited Coupling Fibers Design For Femtosecond Pulse Spectral Broadening In Multipetawatt Laser-induced Plasma Diagnostics**
**Masrur Masrur, Septimiu Balascuta, Ioan Dancus, Andi Cucoanes, Daniel Ursescu**

- **17:30–18:00** Oral 1-4B-5
  - Optical Amplifiers For Space Division Multiplexing (SDM)
    - Yongmin Jung, Jain Saurabh, Shaiful Alam, David J. Richardson  
    - Univ of Southampton
- **17:45–18:00** Oral 1-4C-5
  - Extraction Of Temperature Distribution Using Deep Neural Networks For BOTDA Sensing System
    - Biwei Wang, Nan Guo, Faisal Nadeem Khan, Abul Kalam Azad, Changyu Yu, Chao Lu, Liang Wang  
    - The Hong Kong Polytechnic Univ

#### Room F: 4505
**Invited**

- **17:15–18:00** Oral 1-4E-4
  - Coherent Pulse Stacking Amplification For Multi-mJ Fiber Amplifiers
    - John Ruppe, Hanzhang Pei, Morteza Sheikhsafi, Siyun Chen, John Nees, Russell Wilcox, Wim Leemans, Almantas Galvanauskas  
    - Univ of Michigan
Room I: 4812
Perovskite Materials and Devices II
Presider: Wei Lin Leong

16:15–16:45
Oral 1-4I-1 Invited

Engineering The Properties Of Perovskites
Zexiang Shen
Nanyang Technological Univ

16:45–17:15
Oral 1-4I-2 Invited

Perovskite X-ray Scintillators And Photon-to-Current X-ray Detectors
Muhammad Danang Birowosuto, Danielle Cortecchia, Winicjusz Drazdowski, Cuong Dang, Hong

16:45–17:00
Oral 1-4I-2

Second Harmonic Generation Of Circular Polarization In Phase-Matched Chiral Metamaterials
Lin Wu, Yu Luo
Nanyang Technological Univ

16:45–17:15
Oral 1-4K-2 Invited

Software Defined Elastic RF-Optical Networking (SD-ERON)

Room J: 4912
Plasmonics and Metamaterials II
Presider: Yu Luo

16:15–16:45
Oral 1-4J-1 Invited

Second-order Nonlinear Optics Of Metasurfaces
Martti Kauranen, Robert Czaplicki, Antti Kiviniemi, Joonas Lehtolathi, Janne Laukkanen, Markku Kuitinen
Tampere Univ of Technology

16:45–17:15
Oral 1-4J-2

Second Harmonic Generation Of Circular Polarization In Phase-Matched Chiral Metamaterials
Lin Wu, Yu Luo
Nanyang Technological Univ

Room K: 4203
Fiber-Wireless Systems
Presider: Calvin CK Chan

16:15–16:45
Oral 1-4K-1 Invited

Feasibility Of RoF-based Optical Fronthaul Network For Next-Generation Mobile Communications
Byung Gon Kim, Sung Hyun Bae, Hoon Kim, Yun C. Chung
KAIST

16:45–17:15
Oral 1-4K-2 Invited

Room L: 4303
DSP for Communication Systems
Presider: Lilin Yi

16:15–16:45
Oral 1-4L-1 Invited

Nonlinear Communication Technologies
Sergei K. Turitsyn
Aston Univ

16:45–17:00
Oral 1-4L-2

Effect Of Fog On The BER Performance Of An Optical CDMA FSO Link With SIK Receiver
Satya Majumder, A. K. M. Islam
Bangladesh Univ of Engineering and Technology

Room I: 4812
Perovskite Materials and Devices II
Presider: Wei Lin Leong

17:30–18:00
Oral 1-4E-5 Invited

Design Methodologies For Fabrication Non-uniformity On Chip-scale Silicon Photonic Integrated Circuits
Zeqin Lu
Univ of British Columbia

17:35–17:55
Oral 1-4F-5 Invited

Transverse Mode Instability Threshold And Power Scaling In High Power Fibre Amplifiers And Lasers
Michalis Zervas
Univ of Southampton

17:55–18:15
Oral 1-4F-6

Mitsubishi Electric Corp.

Room J: 4912
Plasmonics and Metamaterials II
Presider: Yu Luo

17:15–17:35
Oral 1-4F-4 Invited

High power fibre lasers for industrial applications
Daichiro Tanaka
Fujikura Ltd.

17:35–17:55
Oral 1-4F-5 Invited

Structural, Optical, Photoluminescence And Photoconductive Properties Of Rare-earth-doped β-Ga2O3 Thin Films
Wenhao Li, Zhengwu Wang, Weihua Tang
Beijing Univ of Posts and Telecommunications

17:30–17:45
Oral 1-4G-5

Planar Waveguides Grown By Pulsed Laser Deposition For Power Amplifiers
Jacob Mackenzie, James Grant-Jacob, Stephen Beecher, Jakew Prentice, Ping Hua, David Shepherd, Robert Eason
Univ of Southampton

17:45–18:00
Oral 1-4G-6

High-average-power Operation Of A 100-mJ-class, Conductively Cooled, Q-switched Tm,Ho:YLF Laser
Atsushi Sato, Makato Aoki, Shoken Ishii, Ryouhei Otsuka, Kohei Mizutani, Satoshi Ochiai
Tohoku Institute of Technology

18:00–18:15
Oral 1-4H-6 Invited

Room K: 4203
Fiber-Wireless Systems
Presider: Calvin CK Chan

17:30–17:45
Oral 1-4H-5

Polarizing Mirrors For Q-switched Lasers Made By Oblique Incidence Physical Vapor Deposition
Jean-Francois Bisson, Alexandre Doucet
Universite de Moncton

17:45–18:00
Oral 1-4G-6

Planar Waveguides Grown By Pulsed Laser Deposition For Power Amplifiers
Jacob Mackenzie, James Grant-Jacob, Stephen Beecher, Jake Prentice, Ping Hua, David Shepherd, Robert Eason
Univ of Southampton
Next-Generation LEDs: Organometal Halide Perovskite Light-Emitting Diodes
Himchan Cho, Young-Hoon Kim, Hong-Kyu Seo, Su-Hun Jeong, Min-Ho Park, Hobeom Kim, Tae-Woo Lee
Seoul National Univ

17:45–18:00
Oral 1-4I-4
High-temperature Lasing From CsPbBr3/Cs4PbBr6 Perovskite Nanocomposites
Yue Wang, Handong Sun
Nanyang Technological Univ

17:45–18:00
Oral 1-4J-3
A New Scheme To Enhance The Third-Harmonic Generation In Graphene
Jian Wei You, Nicolae-Coriolan Panoiu
Univ College London

17:45–18:00
Oral 1-4K-3
Invited
High-Capacity Optical Wireless Communication Using 2-Dimensional IR Beam Steering
Ton Koonen, Amir Khalid, Joanne Oh, Fausto Gomez Agis, Eduward Tangdiongga
Eindhoven Univ. of Technology

17:45–18:00
Oral 1-4L-3
Differential Modulation Based Coherent Optical OFDM Transmission Without Phase Noise Compensation And Channel Equalization
Kyoung-Hak Mun, Sang-Min Jung, Soo-Min Kang, Sang-Kook Han
Yonsei Univ

17:45–18:00
Oral 1-4L-4
Projection Histogram Assisted Common Phase Estimation Algorithm In Coherent Optical OFDM System
Junjie Ma, Zhengxuan Li, Yueting Xu, Qianwu Zhang, Min Wang
Shanghai Univ

17:45–18:00
Oral 1-4L-5
Adaptive Blind Chromatic Dispersion Estimation And Compensation For DSP-based Coherent Optical Systems
Yifan Zhang, Yan Li, Miaoyu Sujie Fan, Jifang Qiu, Hongxiong Guo, Xiaobin Hong, Jian Wu
Beijing Univ of Posts and Telecommunications

17:45–18:00
Oral 1-4L-6
60-Gb/s Optical OFDM Transmissions Over 100m OM1 MMF IMDD System At 1550nm
Jian Chen, Qingqing Huang, Ling Fang
Shanghai Univ

18:00–18:15
Oral 1-4L-7
Experimental Research On SOPP-OSTBC Scheme In UV Communication With Concise 2-PPM
Yanjie Gu, Min Zhang
Beijing Univ of Posts and Telecommunications

Room M: 4611
Femtosecond Laser Processing II
Presider: Chung-Wei Cheng

Room N: 4612
Optical Interconnection II
Presider: Ting Lei

Room O: 4613
Advanced Nano-Optics and Photonics for Quantum Information Devices and Systems II
Presider: Hong Son Chu

Room P: 4711
Fiber Optics and Photonics Metrology II
Presider: Jing Zhang
Laser Trimming Of 2D Materials For Functional Optoelectronic Devices
Baohua Jia, Han Lin, Xiaorui Zheng, Tieshan Yang
Swinburne Univ of Technology

16:15–16:45
Oral 1-4M-1

Invited

Machine Learning Assisted Optical Interconnection
Jiabing Du, Sun Lin, Guoyao Chen, Zuyuan He
Shanghai Jiao Tong Univ

16:15–16:45
Oral 1-4N-1

Invited

Plasmonic Nanoantennas for Optical Nanocircuity
Klas Lindfors
Univ of Cologne

16:15–16:45
Oral 1-4O-1

Invited

The Characterization, Fabrication And Device Research Based On Graphene-Fiber
Weihong Bi
Yanshan Univ

16:15–16:45
Oral 1-4P-1

Invited

Plasmonic Super-resolution Lithography
Xiangang Luo, Xiong Li, Xiaoliang Ma, Mingbo Pu
Institute of Optics and Electronics, Chinese Academy of Sciences

16:45–17:15
Oral 1-4M-2

Invited

Topology-aware Task Placement In Small-world Optical Data Center Network
Wang Cen, Guo Hongxiang, Zhang Dongxu, Wu Jian
Beijing Univ of Posts and Telecommunications

16:45–17:15
Oral 1-4O-2

Invited

Planar And Free-standing Optical Metasurfaces
Patrice Genevet
CNRS-CRHEA

16:45–17:15
Oral 1-4P-2

Invited

Study Of Application Of Super Continuum Fiber Laser In Spectrophotometry
Xueping Cheng, Meng Liu
JPT Opto-electronics Co., Ltd.

16:45–17:15
Oral 1-4P-3

Non-scanning Three-dimensional Imaging Using Two-dimensional Spectroscopy And Spectral Interferometry With Chirped Frequency Comb
Takashi Katoh, Megumi Uchida, Yurina Tanaka, Koaru Minoshima
The Univ. of Electro-Communications (UEC)

16:45–17:15
Oral 1-4P-4

Precise Birefringence Measurement Of Anisotropic Materials By Dual-Comb Spectroscopy
Ken-ichi Kondo, Akifumi Asahara, Yue Wang, Ichiro Shoji, Koaru Minoshima
The Univ of Electro-Communications

17:00–17:15
Oral 1-4N-3

OpenFlow-based Control Mechanism For Coflow-Aware Multi-connection In DCN
Qi Wu, Hongxiang Guo, Cen Wang, Hong Cao, Jian Wu
Beijing Univ of Posts and Telecommunications

17:15–17:30
Oral 1-4N-4

Dynamic TCP Congestion Window Adjustment For Effective Topology Reconstruction In Optical DCN
Junyuan Guo, Hongxiang Guo, Cen Wang, Jian Wu
Beijing Univ of Posts and Telecommunications

17:30–17:45
Oral 1-4N-5

56-Gbps 4-PAM System Over Nearly 40 Km Transmission By Employing An O-band EML And SOA
Hong-Minh Nguyen, Chun-Yen Chuang, Bobby She, Chia-Chien Wei, Jun-Jie Liu, Alan Hong, Young-Kai Chen, Jeyhong Chen
Department of Photonics, National ChiaoTung Univ

17:45–18:00
Oral 1-4N-6

Large Signal Modulation Analysis Of High-speed Transverse Coupled Cavity VCSELs
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<tr>
<th>Room O: 4712 Terahertz Science, Technology and Applications II</th>
<th>Room R: 4713 Advances in Structured Light II</th>
<th>Room S: 4811 Photonics Technologies for Primary Point-of-care and Global Health II</th>
<th>Room T: 4911 Photonic Therapeutics and Diagnostics</th>
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<tr>
<td>Chon La-a-vorakiat KMUTT</td>
<td>Siyuan Yu Univ of Bristol</td>
<td>Toshihiko Kiwa, Takuya Kowana, Tatsuki Kamiya, Taiga Morimoto, Kenji Sakai, Keiji Tsukada Okayama Univ</td>
<td>Hong Zhu, Tianhong Dai Shanghai Jiao Tong Univ</td>
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<tr>
<td>The Photophysical Investigation Of Lead Halide Perovskites By Use Of Terahertz Spectroscopy</td>
<td>Recent Advances On Using The Optical Angular Momentum Of Light For Optical Switching Antonella Bogoni CNIT</td>
<td>Functional Imaging Of In Vivo Biological Tissues With A Digital RGB Camera Izumi Nishidate Tokyo Univ of Agriculture and Technology</td>
<td>Modeling The Lasing Threshold Of A Two-photon Pumped Vitamin Solution Derrick Yong, Haoming Koo Singapore Institute of Manufacturing Technology, A*STAR</td>
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<tr>
<td>Using Ultrafast Terahertz Spectroscopy To Study Low Energy Excitations In Quantum Materials Rohit Prasankumar Los Alamos National Laboratory</td>
<td>Structured Light Communications In Different Scenarios: Advances And Challenges Jian Wang Huazhong Univ of Science and Technology</td>
<td>DNA Sensing Based On Gold Nanoparticles And Silicon Nanopores Toshikaru Saiki Kei Univ</td>
<td>Antimicrobial Blue Light Inactivation Of Uropathogenic Escherichia Coli : Implications For Treatment Of Urinary Tract Infections Yanyan Fang, Ying Wang, Tianhong Dai Harvard Medical School</td>
</tr>
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<td>17:45–18:00 Oral 1-4Q-4</td>
<td>17:15–17:35 Oral 1-4R-4 Invited</td>
<td>17:45–18:00 Oral 1-4S-4</td>
<td>17:10–17:25 Oral 1-4T-4</td>
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<tr>
<td>Continuous Wave Terahertz System With Optical Switch And Coaxial DFB LD Chihoon Kim, Jae Sung Ahn KOPTI</td>
<td>Distortion Correction Of OAM Beams By Using Adaptive Optics Chunqing Gao, Shiyao Fu Beijing Institute of Technology</td>
<td>Nanoplasmonic Detection Of Extracellular Vesicles Huilin Shao, Carine Lim, Yan Zhang National Univ of Singapore</td>
<td>In Vitro Photodynamic Antimicrobial Activity Of A New Cationic Benzylidenepentanone Photosensitizer Against Helicobacter Pylori Ying Wang, Shaona Zhou, Ying Gu, Tianhong Dai, Leili Wang Wellman Center for Photomedicine</td>
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<td>17:25–17:40 Oral 1-4T-5</td>
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3-Dimensional Centrifugal Microfluidic Platform For The Generation Of Discrete Concentration Gradients
Minghui Tang, Xinyu Huang, Xinghai Ning, Jacky Fong-Chuen Loo, Siu-Kai Kong, Xuping Zhang, Guanghui Wang, Ho-Pui Ho
The Chinese Univ of Hong Kong

17:40–18:00
Oral 1-4T-6
Invited

Antimicrobial Blue Light Inactivation Of Pathogenic Microbes: State Of The Art
Tianhong Dai
Harvard Medical School

18:00–18:20
Oral 1-4T-7
Invited

Vasa Vasorum Imaging By Optical Coherence Tomography
Atsushi Tanaka
Wakayama Medical Univ
Room A: 4401
Fiber-Based Technologies and Applications III
Presider: Fei Xu

08:30–09:00
Oral 2-1A-1  
Invited

A Fiber-optics Platform For Study Of Cells
Walter Margulis, Sebastian Etcheverry, Muhhamad Asim Faridi, Harisha Ramachandraiah, Aziza Sudirman, Aman Russom, Fredrik Laurell
RISE Acreo

09:00–09:30
Oral 2-1A-2  
Invited

Multimode Fiber Spectrometer
Hui Cao
Yale Univ

09:30–10:00
Oral 2-1A-3  
Invited

Hybrid Optical Fibers: A Platform For Nanoscale Photonics And Nonlinear Light Generation
Markus Schmidt
Leibniz Institute of Photonic Technology

10:00–10:30
Oral 2-1A-4  
Invited

Publishing In Nature Communications
Lina Persechini
Nature Communications

Room B: 4403
Silicon Photonics
Presider: Daoxin Dai

08:30–09:00
Oral 2-1B-1  
Invited

All-fiber Integrated Silicon Photonics
Li-Min Xiao
Fudan Univ

09:00–09:30
Oral 2-1B-2  
Invited

Self-Heating In Depletion-Type Si Ring Modulators
W.-Y. Choi, M.-J. Shin, B.-M. Yu, Lars Zimmermann
Yonsei Univ

09:30–10:00
Oral 2-1B-3  
Invited

Silicon Photonics-based Integrated Optical Subassembly For Next Generation Coherent Transceivers
Akimasa Kaneko
NTT

10:00–10:30
Oral 2-1B-4  
Invited

Fully Suspended Silicon Slot Waveguides And Resonators
Wen Zhou, Hon Ki Tsang
Chinese Univ of Hong Kong

Room C: 4405
Interferometric Fiber Optic Sensors and Systems
Presider: Zhifang Wu

08:30–09:00
Oral 2-1C-1  
Invited

High-speed Interferometric Fiber Optic Displacement Sensor With Sub-nm Resolution
Lun-Kai Cheng, Ronald Hagen, Lodi Schrieck, Peter Toet, Oana Van der Tagt
TNO

09:00–09:15
Oral 2-1C-2

Anisotropic Nanochain-Clusters Of Nanoferronfluid And Its Applications In Vector Magnetometer
Jinde Yin
Shenzhen Univ

09:15–09:30
Oral 2-1C-3

Graphene-Coated In-Fiber Mach-Zehnder Interferometer For Ammonia Gas Sensing
Ting Hao, Kin Seng Chiang
City Univ of Hong Kong

09:30–09:45
Oral 2-1C-4

Analysis Of Signal Spectrum Broadening Of Laser Doppler Velocimetry
Yixiong He, Shuling Hu, Ziao Wan, Zhuo Deng
Beihang Univ

09:45–10:00
Oral 2-1C-5

Three-dimensional Object Profiling By FMCW Optical Ranging System Using A VCSEL
Koichi Iiyama, Tatsuya Washizuka, Kohei Yamaguchi
Kanazawa Univ

10:00–10:15
Oral 2-1C-6

Room D: 4501
Metamaterials & Metasurfaces
Presider: Patrice Genevet

08:30–09:00
Oral 2-1D-1  
Invited

Metasurface-Based Nanophotonic Devices
Nanfang Yu
Columbia Univ

09:00–09:30
Oral 2-1D-2  
Invited

Spin-controlled Multitasking Geometric Phase Metasurfaces
Erez Hasman
Technion - Israel Inst. of Technology

09:30–09:45
Oral 2-1D-3

Physics Of Chiroptical Spectroscopy Using Metamaterials
SeokJae Yoo, Q-han Park
Korea Univ

09:45–10:15
Oral 2-1D-4  
Invited

Realization Of 3D Metamaterials At Optical Frequencies
Junseok Rho
Pohang Univ of Science and Technology

10:00–10:15
Oral 2-1D-5

Photonics 2017
Room E: 4503
Photonic Devices - Towards On-chip Integration I
Presider: Ching Eng Jason Png
08:30–09:00
Oral 2-1E-1
Invited

Hybrid Silicon Photonics Flip-Chip Laser Integration With Vertical Self-Alignment
Moscoso-Martir Alvara, Merget Florian, Mueller Juliana, Hauck Johannes, Shen Bin, Le large Francois, Breton Romain, Garreau Alexandre, Mentovich Elad, Sandomirovsky Anna, Badihi Avner, Rasmussen Daniel E., Setter Rony, Witzens Jeremy
RWTH Aachen

09:00–09:15
Oral 2-1E-2

Broadband, High-Extinction-Ratio, And Low-Excess-Loss Polarizer Based On Horizontal Slot Silicon Bragg Grating
Yang Wang, Shitao Gao, Ke Wang, Efstratios Skofidas, Hongtao Li
The Univ of Melbourne

09:15–09:30
Oral 2-1E-3

Ultra-Compact And Broadband Silicon Polarization Rotator
Hongnan Xu, Yaqoeng Shi
Zhejiang Univ

09:30–09:45
Oral 2-1E-4

A Highly Efficient Polarization Beam Splitter with Small Footprint by using a Slot Waveguide
Shijie Gong, Jifang Qiu, Ye Tian, Yan Li, Xiaobin Hong, Jian Wu

Room F: 4505
Compund Semiconductor for NIR and MIR
Presider: Daohua Zhang
08:30–09:00
Oral 2-1F-1
Invited

Optical Frequency Comb Generation By Four-wave Mixing With A Seeding Source Of Dual-mode Microlasers
Yong-Zhen Huang, Hai-Zhong Weng, Yue-De Yang, Jin-Long Han, Jun-Yuan Han, Ming-Long Liao, Yun Du
Univ of Chinese Academy of Sciences

09:00–09:15
Oral 2-1F-2

High Indium InGaAs Detectors And Lasers In 1.7-3 um Range: From Materials To Applications
Shanghai Institute of Microsystem and Information Technology, CAS

09:15–09:30
Oral 2-1F-3

An AlGaAs/GaAs Nanowire/Quantum-Well Near-Infrared Laser Operating At Room Temperature
Xin Yan, Jinnan Zhang, Jianmin Wang, Bang Li, Qichao Lu, Yanbin Luo, Xia Zhang, Xiaomin Ren
Beijing Univ of Posts and Telecommunications

09:30–09:45
Oral 2-1F-4

Monolithic Hybrid, III-V And III-V, Quantum Cascade Detector

Room G: 4301
Advanced Lasers and Applications II
Presider: Weijun Fan
08:30–09:00
Oral 2-1G-1
Invited

Simple And Compact Widely Tunable V-cavity Laser
Jian-Jun He He
Zhejiang Univ

09:00–09:30
Oral 2-1G-2
Invited

A Hybrid Silicon Single Mode Laser Based On Graphene
Kan Qiang, Zhengliang Ren, Guangzhao Ran
Institute of semiconductor, CAS

09:30–09:45
Oral 2-1G-3

Grating Embedded Ring Lasers As Vertical OAM Emitters: Possibility And Requirements
Yi Wang, Yujie Chen, Bingzhi Zhang, Andi Zhang, Yanfeng Zhang, Siyuan Yu
Sun Yat-sen Univ

09:45–10:15
Oral 2-1G-4
Invited

III-V Quantum Dot Lasers Epitaxially Grown On Si
Siming Chen, Mingchu Tang, Jiang Wu, Mnegya Liao, Alwyn Seeds, Huiyun Liu
Univ College London

10:15–10:45
Oral 2-1H-4

Comparison Of Yb:YAG Single Crystal Fiber With Larger Aperture CPA Pumped At 940 nm And 969 nm

Room H: 4201
High Power, High Energy Lasers III
Presider: Shaiful Alam
08:30–09:15
Oral 2-1H-1
Invited

Real-time Extremes - Single Shot Measurements Of Ultrafast Instabilities And Rogue Waves In Nonlinear Optics
John Dudley
Universite Bourgogne Franche Comte - CNRS FEMTO-ST

09:15–09:45
Oral 2-1H-2
Invited

PCF Technology For Industrial Ultrafast Laser Systems
Thomas Alkeskjold, Johannes Wirich, Mette Marie Johansen, Torben Kristensen, Anders Sig Olesen, Mattia Michielletto, Marco Triches, Christian Jakobsen
NKT Photonics

09:45–10:15
Oral 2-1H-3
Invited

'Crystalline-core/crystalline-cladding' Fiber Concept For Major Laser Power Scaling
Mark Dubinskii, Jun Zhang, Youming Chen, Shizhuo Yin, Clair Luo
US Army Research Laboratory

10:15–10:45
Oral 2-1H-4

Comparison Of Yb:YAG Single Crystal Fiber With Larger Aperture CPA Pumped At 940 nm And 969 nm

Ultrasonic Pressure Sensor Realized With Two-semicircle Hole Fiber Based On Sagnac Interferometer
Zhengyong Liu, Lin Htein, Hwa-Yaw Tom
The Hong Kong Polytechnic Univ
### Room I: 4812
**Fundamentals of Entrepreneurship**  
Presider: Moe Amanzadeh

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<td>Oral 2-1-1-1 Invited</td>
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<td>09:00–09:30</td>
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**Startups In Optics And Photonics**  
Eric Swanson  
Acacia Communications

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**A Founder And Investor’s View Of Photonics Today**  
Frank Levinson  
Phoenix Venture Partners

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### Room J: 4912
**Modulation Properties of 2D Materials**  
Presider: Javier Garcia de Abajo

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**Advanced 2D Materials For Photonics**  
Antonio H. Castro Neto  
National Univ of Singapore

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**Graphene Based Optoelectronics: From Visible To Microwave**  
Coskun Kocabas  
Bilkent Univ

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### Room K: 4203
**Advanced Optical Network Design**  
Presider: Jiajia Chen

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**Mode Division Multiplexed Networks**  
Ken-ichi Kitayama, Nikolas P. Diamantopoulos, Yukit Yoshida, Akihiro Maruta  
Graduate School for the Creation of New Photonics Industries

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**Path Planning Optimization for Optical Cables**  
Moshe Zukerman  
City Univ of Hong Kong

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### Room L: 4303
**Frequency Combs and Waveguide Devices**  
Presider: Masayuki Matsumoto

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:30–09:00</td>
<td>Oral 2-1L-1 Invited</td>
</tr>
</tbody>
</table>

**Generation Of Mode-locked Frequency Combs From Normal-dispersion Microresonators**  
Xiaoqiao Xue, Andrew M. Weiner, Minghao Qi  
Tsinghua Univ

<table>
<thead>
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<th>Time</th>
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<tr>
<td>09:00–09:15</td>
<td>Oral 2-1L-2</td>
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</table>

**Active Photonic Integrated Circuits Using Semiconductor Optical Amplifiers**  
Yiwei Xie, Leiming Zhuang, Arthur Lowery  
Monash Univ

<table>
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<th>Time</th>
<th>Event</th>
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<tr>
<td>09:15–09:30</td>
<td>Oral 2-1L-3</td>
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</table>
**Opto-electronic Device Scaling For Atto-Joule Nanophotonics: Example Sub-1Volt Modulator**
Volker Sorger, Ke Liu, Shuai Sun, Arka Majumdar
George Washington Univ

10:15–10:30
Oral 2-1J-4

**Incoherent Optical Modulation Of Graphene Based On Inline Fiber Mach-Zehnder Interferometer**
Lei Gao, Cong Gao, Tao Zhu
Chongqing Univ

09:30–09:45
Oral 2-1K-3

**Inter-Core Crosstalk-Aware Routing, Spectrum And Core Allocation In Multi-Dimensional Optical Networks**
Shan Yin, Shanguo Huang, Bingli Guo, Chenge Wang, Haibin Huang, Tao Gao
Beijing Univ of Posts and Telecommunications

09:45–10:00
Oral 2-1K-4

**Traffic Management In SDN-enabled Optical Packet Switching Intra-datacenter Network**
Eric Dutisseuil, Bogdan Uscumlic, Jose Manuel Estaran Tolosa, Haik Mardoyan, Quan Pham Van, Arnaud Dupas, Yvan Pointurier
Nokia Bell Labs

10:00–10:15
Oral 2-1K-5

**An Effective Algorithm for Dynamic Traffic Grooming In Light-trail WDM Mesh Networks**
Hwa-Chun Lin, Yuan-Xi Zhuang
National Tsing Hua Univ, Taiwan

10:15–10:30
Oral 2-1K-6

**Tradeoff Between Failure Probability And Load Balancing In Flexible Bandwidth Optical Networks**
Min Chen, Jie Zhang, Bowen Chen, Xiaosong Yu
Soochow Univ

**Characterization Of Electromagnetic Eigenmodes: Current State And Challenges**
Yuriy Akimov, Wee Kee Phua, Artyom Assadillayev
Institute of High Performance Computing, A*STAR

09:30–09:45
Oral 2-1L-4

**Demonstration Of Direct Coupling Between A Toroid Microcavity And A Photonic Crystal Waveguide**
Tomohiro Tetsumoto, Hajime Kumazaki, Yoshihiro Honda, Takasumi Tanabe
Keio Univ

09:45–10:00
Oral 2-1L-5

**Design Of All Optical 1-bit And 2-bit Magnitude Comparator Using Micro-ring Resonator**
Jayanta Kumar Rakshit
National Institute Of Technology Agartala

10:00–10:15
Oral 2-1L-6

**67.6% Improvement In Data Rate Employing Partial Transmit Sequence For PAPR Reduction And Volterra Filtering In An OFDM Long-Reach PON**
Chun-Yen Chuang, Chia-Wei Hsu, Chia-Chien Wei, Jun-Jie Liu, Hong-Minh Nguyen, Young-Kai Chen, Jyehong Chen
National ChiaoTung Univ

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<thead>
<tr>
<th>Room M: 4611</th>
<th>Room N: 4612</th>
<th>Room O: 4613</th>
<th>Room P: 4711</th>
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<tbody>
<tr>
<td>Laser Surface Modification</td>
<td>Optical Interconnection III</td>
<td>Quantum Communication</td>
<td>Optical Sensor Technology I</td>
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<tr>
<td>Presider: Baohua Jia</td>
<td>Presider: Jiangbing Du</td>
<td>Presider: Leong Chuan Kwek</td>
<td>Presider: Daping Chu</td>
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**Surface Modification Of Rare Earth Magnesium Alloy Through Surface Irradiation In Various Environments**
Sylvie Castagne, Indira Khadka,

08:30–09:00
Oral 2-1M-1
Invited

**Double-Side EML For High Speed Optical Short Reach And Metro Applications**
Kangping Zhong, Xian Zhou, Jiahao Huo, Hongyu Zhong, Alan Pak Tao

08:30–09:00
Oral 2-1N-1
Invited

**Heralded Noiseless Linear Amplification And Its Applications To Quantum Communication**

08:30–09:00
Oral 2-1O-1
Invited

**Power Referenced Magnetic Field Sensors Based On Tilted Optical Fiber Bragg Gratings**

08:30–09:00
Oral 2-1P-1
Invited
Zhongke Wang, H.Y. Zheng
Nanyang Technological Univ
09:00—09:30
Oral 2-1M-2
Invited

Laser Induced Backside Wet Etching Of Sapphire Substrate
Xiaozhu Xie
Guangdong Univ of Technology
09:30—09:45
Oral 2-1M-3

Pulsed-Laser-Induced Microbumps On Mica For Fiducial Marking
Doug Little, Malcolm Lawn, Ben Johnston, Deb Kane
Macquarie Univ
09:45—10:00
Oral 2-1M-4

Wettability Of Si Surface Under Combination Of NLL And Surface Plasma Polymerization
Serim Ilday, Onur Tokel, Ihor Pavlov, Omer Ilday
Bilkent Univ
10:00—10:15
Oral 2-1M-5

Doppler Effect On Nanopatterning With Nonlinear Laser Lithography
Osgun Yavuz, Semih Kara, Onur Tokel, Ihor Pavlov, Fatih Omer Ilday
Bilkent Univ
10:15—10:30
Oral 2-1N-6

Cost-effective And Miniaturized 40Gb/s CWDM VCSEL TOSA For Mega Datacenter Connectivity
Jubin Yeom, Eun-Gu Lee, Jyung
10:30—10:45
Oral 2-1N-3

High-speed Data Transmission Based On Vector Mode Division Multiplexing For Short-reach Optical Interconnect
Jianping Li, Jianbo Zhang, Fan Li, Zhaohui Li
Jinan Univ
09:30—09:45
Oral 2-1N-3
Investigation Of Mirror-resistance Reduction In The Signal Transmission Integrity Of VCSELs
Chun-Yen Peng, Yan-Chien Lee, Cheng-Ting Tsai, Shan-Fong Leong, Hsuan-Yun Kao, Yu-Chieh Chi, Gong-Ru Lin, Chao-Hsin Wu
Graduate Institute of Photonics and Optoelectronics
09:45—10:00
Oral 2-1N-4

Net 100G Discrete Multi-tone Transmission Using 850 nm MM-VCSEL And Four-Dimensional Modulation Formats
Xiaofeng Lu, Vladimir Lyubopytov, Idelfonso Tafur Monroy
Technical Univ of Denmark
10:00—10:15
Oral 2-1N-5

Sub-volt Wavelength Sweep Operation Of MEMS VCSEL Employing High-Q Mechanical Resonance
Masanori Nakahama, Shunya Inoue, Shun Nishimura, Akihiro Matsutani, Takahiro Sakaguchi, Fumio Koyama
Tokyo Institute of Technology
10:15—10:30
Oral 2-1N-6

Continuous Variable Quantum Repeaters: A Core Element Of Tomorrow's Quantum Internet
William John Munro
NTT BRL
09:00—09:15
Oral 2-1N-2
Invited

Can Additional Dispersion Do Any Good To The Range Of Quantum Communication?
Mikolaj Lasota
Nicolaus Copernicus Univ
09:30—10:00
Oral 2-1O-4
Invited

An Improved Power-flow Theory For Multimode Optical Fiber And Its Applications In Optical Speckle Sensing
Lei Su
Queen Mary Univ of London
09:45—10:00
Oral 2-1P-4

High Accuracy Self-correction Of The Air-refractive Index With A Single Color Comb Interferometer
Makino Tomohiro, Miyano Kouki, Shilin Xiong, Guanhao Wu, Schibli Thomas, Nakajima Yoshiaki, Minoshima Kaoru
The Univ of Electro-Communications
10:00—10:15
Oral 2-1P-5

Few-mode Fiber Based Raman Distributed Temperature Sensing Over 25 Km With Link Optimization And Wavelet-denoising
Meng Wang, Hao Wu, Ming Tang, Songnian Fu, Deming Liu
Huazhong Univ of Science & Technology
09:00—09:15
Oral 2-1P-2

Distributed Temperature Sensing Over 25 Km With Link Optimization And Wavelet-denoising
Meng Wang, Hao Wu, Ming Tang, Songnian Fu, Deming Liu
Huazhong Univ of Science & Technology
09:00—09:15
Oral 2-1P-2

Robust Measurement Of Specular Surfaces With One Shot Projection And Pattern Registration
Zhenzhou Wang
Shenyang institute of automation, Chinese Academy of Sciences
10:00—10:15
Oral 2-1P-5
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<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Institution</th>
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<td>08:30–08:50</td>
<td>Oral 2-1T-1 Invited</td>
<td>Dynamic High Throughput Optical Imaging Of Mammalian Vascular Systems</td>
<td>Woei Ming Lee</td>
<td>Australian National Univ</td>
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<td>08:50–09:10</td>
<td>Oral 2-1T-2 Invited</td>
<td>Label-free Detection Of Circulating Melanoma Cells By In Vivo Photoacoustic Flow Cytometry</td>
<td>Xunbin Wei</td>
<td>Shanghai Jiao Tong Univ</td>
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<td>09:00–09:30</td>
<td>Oral 2-1Q-2 Invited</td>
<td>Hollow-core Terahertz Waveguides Based On Photonic Band-gap Cladding</td>
<td>Georges Humbert</td>
<td>XLIM Research Institute</td>
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<td>09:45–10:00</td>
<td>Oral 2-1Q-4</td>
<td>Development Of Electrochemical Measurement Method Using A Terahertz Chemical Microscope</td>
<td>Yuki Kawakami, Kentaro Fujiwara, Kenji Sakai, Toshihiko Kiwa, Keiji Tsukada</td>
<td>Okayama Univ</td>
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<td>10:00–10:15</td>
<td>Oral 2-1Q-5</td>
<td>Label-free And Real-time Detection Of Interaction Between Biological Molecules Using Terahertz Chemical Microscope</td>
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<td>09:30–09:45</td>
<td>Oral 2-1Q-3</td>
<td>Local Excitation Of THz Meta-Atoms</td>
<td>Kazunori Serita, Juraj Darmo, Iwao Kawaiyama, Hironari Murakami, Masayoshi Tonouchi</td>
<td>Osaka Univ</td>
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<td>09:30–10:00</td>
<td>Oral 2-1R-3 Invited</td>
<td>On-chip Coherent Conversion Of Photonic Quantum Entanglement</td>
<td>Xi-Feng Ren</td>
<td>Univ of science and technology of China</td>
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<td>10:00–10:15</td>
<td>Oral 2-15-4</td>
<td>Fiber-optic In-line Mach-Zehnder Modal Interferometer For Breathing Monitoring Application</td>
<td>Ketian Wang, Wei Xu, Na Zhang, Kunpu Li, Cheunghuen Yu, Changyuan Yu</td>
<td>Univ of Electronic Science and Technology of China</td>
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<td>09:00–09:30</td>
<td>Oral 2-1R-2 Invited</td>
<td>Chemical Etching Assisted Femtosecond Laser Machining</td>
<td>Qi-Dai Chen</td>
<td>Jilin Univ</td>
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<td>09:30–10:00</td>
<td>Oral 2-15-3 Invited</td>
<td>Improvement Of In Vivo Two-Photon Microscopy By Utilizing Novel Optical Technologies</td>
<td>Nemoto Tomomi</td>
<td>Hokkaido Univ</td>
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<td>Room A: 4401</td>
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<td>Room C: 4405</td>
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| Fiber-Based Technologies and Applications IV
Presider: Thibaut Sylvestre | Photonic Integration
Presider: Woo-Young Choi | Special Fiber Sensors
Presider: Bo Lin | Plasmonics I
Presider: Niels Asger Mortensen |

**Room A: 4401**

**Semiconductor Optical Fibers For Nonlinear Photonics**
Anna Peacock, Haonan Ren, Noel Healy, Antoine Runge
Univ of Southampton

10:45–11:15  
Oral 2-2A-1  
Invited

**Engineering Surface And Rheological Properties For The Next Generation Of Thermally Drawn Fiber-based Devices**
Fabien Sorin, Yunpeng Qu, Tung

11:15–11:45  
Oral 2-2A-2  
Invited

**Room B: 4403**

**Silicon Photonic Integrated Circuits With Multiple Modes**
Doxin Dai  
Zhejiang Univ

10:45–11:15  
Oral 2-2B-1  
Invited

**Room C: 4405**

**Sensing Application Based On Helical-Structured Multicore Fiber**
Zhifang Wu, Hailiang Zhang, Perry Ping Shum, Xuguang Shao, Zhilin Xu, Ming Tang  
Huaqiao Univ

10:45–11:15  
Oral 2-2C-1  
Invited

**Room D: 4501**

**Higher-order Surface Plasmons Resonances In Single Silver Nanoparticles And Plasmonic Resonance In Laser-induced Damaged Metal Films At Percolation**
Nicolas Stenger, Frydendahl Christian  
Technical Univ of Denmark

10:45–11:15  
Oral 2-2D-1  
Invited

**Microfiber Optic Biochemical Sensors**
Qizhen Sun

11:15–11:45  
Oral 2-2D-2  
Invited
Deformable Wire Array: Fiber Drawn Tunable Metamaterials
Simon Fleming, Alessio Stefani, Xiaoli Tang, Alexander Argyros, Daniel Kemley, James Cordi, Richard Lwin
The Univ of Sydney

Oral 2-2A-3
11:45–12:00
Design And Applications Of High-Delta Silica Planar Lightwave Circuits
Shintaro Yamasaki, Junichi Hasegawa
Furukawa Electric Co., LTD.

Oral 2-2A-4
12:00–12:30
Ultrasound-Efficiency Frequency Conversion Of Light And Sound In Submicro-Scaled Photonic Systems
Myeong Soo Kang
Korea Advanced Institute of Science and Technology (KAIST)

Oral 2-2A-5
12:15–12:30
A High Sensitivity Fiber Laser Microphone
Wentao Zhang, Fang Li
Institute of Semiconductors, Chinese Academy of Sciences

Oral 2-2A-6
12:30–12:45
Accurate Measurement Of Total Mode Coupling In Few Mode Fibers (FMFs) Based On A Modified Spatial And Spectral Resolved (S2) Imaging System
Fengze Tan, Changyuan Yu, Jian Zhao, Guifang Li
The Hong Kong Polytechnic Univ

Oral 2-2B-3
11:45–12:00
Invited

Oral 2-2B-4
12:00–12:15
Invited

Oral 2-2B-5
12:15–12:30
Invited

Oral 2-2C-3
11:30–12:00
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Oral 2-2C-4
12:00–12:15
Invited

Oral 2-2C-5
12:15–12:30
Invited

Oral 2-2D-3
11:45–12:15
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Oral 2-2D-4
12:15–12:30
Invited

Oral 2-2D-5
12:15–12:30
Invited

Oral 2-2E-1
10:45–11:15
Invited

Oral 2-2F-1
10:45–11:15
Invited

Room E: 4503
Photonic Devices - Towards On-chip Integration II
Presider: Ching Eng Jason Png

Room F: 4505
High Intensity Ultrafast Phenomena I
Presider: Tomasz Wolinski

Room G: 4301
Advanced Lasers and Applications III
Presider: Houxiao Wang

Room H: 4201
Solitons and Related Nonlinear Effects
Presider: John Dudley

Room I: 4507
Optical Materials Science and Technology
Presider: Peter P. Sorokin

Room J: 4509
Nonlinear Effects in Fibers and Waveguides
Presider: Takashi Imai

Room K: 4511
Photonic Devices for Wireless Applications
Presider: Todd L. Key

Room L: 4513
Optics and Photonics for Energy and Environment
Presider: Guanghui Wang

Room M: 4515
Optical Communication with Nanophotonic Devices
Presider: Kenneth Chang
Silicon Photonics At Sandia National Laboratories
Michael Gehl, Christopher Long, Hong Cai, Nick Boynton, Nicholas Martinez, Andrew Pomerene, Andrew Starbuck, Christina Dallo, Dana Hood, Douglas Trotter, Patrick Chu, Paul Davids, Christopher DeRose, Lentine Anthony Sandia National Laboratories

11:15–11:30
Oral 2-2E-2
Silicon Photonic Bandwidth-Tunable Filter Based On 16-Tap Finite Impulse Response
Ken Tanizawa, Keijiro Suzuki, Kazuhiro Ikeda, Shu Namiki, Hitoshi Kawashima National Institute of Advanced Industrial Science and Technology (AIST)

11:30–11:45
Oral 2-2E-3
Ultra-compact Dual-parameter Sensing Based On A Photonic Crystal Rectangular Holes Nanobeam Multimode Microcavity Lin Zhang, Fujun Sun, Zhongyuan Fu, Chao Wang, Huiping Tian Beijing Univ of Posts and Telecommunications

11:45–12:00
Oral 2-2E-4
Versatile Bezier Bends For Silicon Photonics Thomas Ang, Junrong Ong, Soon Thor Lim, Ching Eng Jason Png, Tina Guo, Hong Wang Institute of High Performance Computing

11:45–12:15
Oral 2-2F-3
Invited
Frontiers Of Femtosecond Parametric Amplifiers: Sub-optical-cycle Pulses From The Visible To The Mid-infrared By Coherent Synthesis Giovanni Cirmi, Huseyn Cankaya, Giulio Maria Rossi, Anne-Laure Calendron, Roland Mainz, Shih-Huain Chia, Shaobo Fang, Haïm Suchowski, Oliver D. Mucke, Franz X. Kartner CFEL/DESY, CUI

12:00–12:15
Oral 2-2F-4
Invited
Burst Of Coherent Terahertz Radiation From Intense Laser- Foil Interactions Yutong Li Institute of Physics, Chinese Academy of Sciences

12:15–12:45
Oral 2-2F-4
Invited
Reliability Perspective On The Methods To Enhance High Power LEDs Intensity And Efficacy Preetpal Singh, Wenyu Zhao, Hao-Chung Kuo Chang Gung Univ

12:00–12:30
Oral 2-2G-4
Invited
Ultrasound-Assisted Pulsed Laser Drilling for Fabricating High Quality Microholes Houxiao Wang, Naifei Ren, Lin Li, Kaibo Xia, Sukai Zhu, Chunhui Shi, Xudong Ren Jiangsu Univ

12:30–12:45
Oral 2-2G-5
Invited
Influence of Assist Gases on Pulsed Laser Drilling of Nickel-Based Superalloy Houxiao Wang, Naifei Ren, Wen Zhang, Kaibo Xia, Li Zhang Jiangsu Univ

11:15–11:45
Oral 2-2G-2
Invited

12:00–12:15
Oral 2-2H-3
Solitonisation Of Anderson Localisation And Optical-event Horizons In Rogue-solitons Generation Mohammed Saleh, Claudio Conti, Fabio Biancalana Heriot-Watt Univ

12:15–12:30
Oral 2-2H-4
Controlling Cherenkov Radiation Emission Through Self-accelerating Wave-packets Zhili Li, Benjamin Wetzel, Roberto Morandotti, Zhigang Shen, Jingjun Xu Nankai Univ

11:45–12:00
Oral 2-2H-2
Non-mechanical Beam Scanner Integrated VCSEL For Solid State LiDAR Keisuke Shimura, Zeuku Ho, Masanori Nakahama, Xiaodong Gu, Akihiro Matsutani, Fumio Koyama Tokyo Institute of Technology.

12:00–12:30
Oral 2-2H-5
Invited
Shape And Properties Of Pure Quartic Solitons Martijn De Sterke, Andrea Blanco-Redondo, Alexo Sarai, Lo Chih-Wei, Ben Eggleton, Michael Steel Univ of Sydney

12:30–12:45
Oral 2-2H-6
Invited
Soliton Dynamics In Femtosecond Lasers Observed Via Real-Time Spectroscopy Geory Herink Univ of Goettingen
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<th>Industry and Entrepreneurship</th>
<th>Presider: Kevin Liu</th>
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<td>Risk Management In A Startup</td>
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<td>Daniel Renner</td>
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<td>Freedom Photonics</td>
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<td>10:45–11:15</td>
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<td>Control Of Chemical Reactions With Hyperbolic Metamaterials, Resonant Cavities And Metallic Surfaces V. N. Peters, C. Yang, M. O. Faruk, R. Alexander, D. A. Peters, M. A. Noginov Norfolk State Univ</td>
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<td>11:15–11:45</td>
<td>Oral 2-2I-2 Invited</td>
<td>Graphene For Transparent Conductors And Infrared Sensing Kavitha Kalavoor Gopalan, Miriam Marchena, Juan Rombaut, Itandehui Gris, Daniel Rodrigo, Valerio Pruneri ICFO-The Institute of Photonic Sciences</td>
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<td>11:45–12:00</td>
<td>Oral 2-2J-3</td>
<td>WSe2-in203 Nanowire Infrared Phototransistor Nan Guo, Junku Liu, Yi Jia, Sijia Wang, Lei Wang, Peng Qin, Lin Xiao China Academy of Space Technology</td>
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<td>12:00–12:15</td>
<td>Oral 2-2J-4</td>
<td>GaAs-Nanowire-Array/Graphene Schottky Diodes For Photodetection Yao Wu, Yan Xin, Bang Li, Yanbin Luo, Qichao Lu, Xia Zhang, Xiaomin Ren Beijing Univ of Posts and Telecommunications</td>
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<td>12:15–12:30</td>
<td>Oral 2-2J-5</td>
<td>N2a-compliant SFP+ OLT Transceiver For High Power Budget XG-PON Systems Daisuke Mita, Satoshi Shirai, Satoshi Yoshima, Tetsuro Ashida, Masaki Noda Mitsubishi Electric Corporation</td>
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<th>Room J: 4912</th>
<th>Chemical and Photodetection</th>
<th>Presider: Volker Sorger</th>
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<td>Oral 2-2J-1 Invited</td>
<td>Future Networking In Access Frank Effenberger Futurewei Technologies</td>
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<td>11:15–11:45</td>
<td>Oral 2-2K-2 Invited</td>
<td>Minimizing Registration Overhead For Multipoint-to-Multipoint Communication In Passive Optical Interconnects Jiajia Chen, Shen Xiaoman, Sailing He KTH Royal Institute of Technology</td>
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<td>12:00–12:15</td>
<td>Oral 2-2K-4</td>
<td>Novel Carrier Phase Estimation Method For High-speed Coherent WDM PON Based On RSOA Daeho Kim, Byung Gon Kim, Sung Hyun Bae, Hoon Kim, Y. C. Chung KAIST</td>
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<th>Next Generation Optical Access Networks</th>
<th>Presider: Shanguo Huang</th>
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<td>10:45–11:15</td>
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<td>Ultra-low Noise Amplification And Its Application To Optical Communication Andrekson Peter Chalmers Univ of Technology</td>
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<td>Oral 2-2K-2 Invited</td>
<td>Regenerative Wavelength Conversion Of PAM-4 Signals Using XGM With Blue-Shift Filtering In A QD-SOA Ohtsuki Tatsuya, Yatsu Tomoya, Matsuura Motoharu Univ of Electro-Communications</td>
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<th>Optical Signal Processing</th>
<th>Presider: Chester Shu</th>
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<td>12:00–12:15</td>
<td>Oral 2-2K-4</td>
<td>Invited</td>
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<tr>
<td>12:15–12:30</td>
<td>Oral 2-2K-5</td>
<td>Invited</td>
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**Photonics Technologies For Today And Tomorrow**
Kenneth Tai
Jasper Display Corp. (JDC)

**The Changing Landscape Of Photonics Commercialisation**
John Harvey
Southern Photonics Ltd
**Light Polarization Dependent Photocurrents In Biased Graphene And 2D Semiconductors**  
Mustafa Eginligil  
Nanjing Tech Univ  
12:30–12:45  
Oral 2-2K-6

**Bidirectional 100Gb/s/λ SDM-WDM-PON For High-speed/capacity Access Networks**  
Zhen Wang, Ying Wang, Wei Liu, Ying Shen, Shanhong You, Xiang Li, Ming Luo, Qi Yang  
Soochow Univ

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**Room M: 4611**  
**Laser Texturing and Patterning I**  
Presider: Xiaozhu Xie  

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<td>10:45–11:15</td>
<td>Oral 2-2M-1</td>
<td>Invited</td>
<td>Laser Processing Of Nanomaterials For Fabricating Transparent Electrodes</td>
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<td>Jeonghong Ha, Taesoon Park</td>
<td>POSTECH</td>
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<td>11:15–11:45</td>
<td>Oral 2-2M-2</td>
<td>Invited</td>
<td>Durability And Biological Corrosion Inhibition Of Laser Textured Superhydrophobic Surfaces In Seawater</td>
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<td>Fengping Li, Huan Yang, Yu Cao, Wei Xue</td>
<td>Xiamen Univ</td>
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<td>11:45–12:15</td>
<td>Oral 2-2M-3</td>
<td>Invited</td>
<td>Laser-processed Micropatterned Quantum-dot Array For Novel White Light Source</td>
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<td>Tsung Sheng Kao, Sheng-Wen Wang, Ming-Hui Hong, Kuo Hao-</td>
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**Room N: 4612**  
**Integrated Photonics for Optical Signal Processing**  
Presider: Dawn Tan  

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<td>10:45–11:15</td>
<td>Oral 2-2N-1</td>
<td>Invited</td>
<td>Compact Brillouin Devices Through Hybrid Integration On Silicon</td>
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<td>Benjamin Eggleton</td>
<td>Univ of Sydney</td>
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**Room O: 4613**  
**Quantum Emitters and Modules**  
Presider: William Munro  

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<td>10:45–11:15</td>
<td>Oral 2-2O-1</td>
<td>Invited</td>
<td>A Universal Quantum Module For Quantum Computation And Communication</td>
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<td>Kae Nemoto</td>
<td>National Institute of Informatics</td>
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<td>11:15–11:30</td>
<td>Oral 2-2O-2</td>
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<td>Quantum Emitters In Flatland</td>
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<td>Igor Aharonovich</td>
<td>Univ of Technology Sydney</td>
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<td>11:30–12:00</td>
<td>Oral 2-2O-3</td>
<td>Invited</td>
<td>Coherent Manipulation Of A Strongly Driven Silicon Vacancy Optical Transition In Diamond</td>
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<td>Weibo Gao</td>
<td>Nanyang Technological Univ</td>
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**Room P: 4711**  
**Optical Sensor Technology II**  
Presider: Xinyong Dong  

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<td>10:45–11:15</td>
<td>Oral 2-2P-1</td>
<td>Invited</td>
<td>Highly Sensitive Strain Measurement Using Crescent Shaped Fabry-Perot Fiber Cavity</td>
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<td>Dongning Wang</td>
<td>China Jiliang Univ</td>
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<td>11:15–11:30</td>
<td>Oral 2-2P-2</td>
<td></td>
<td>Compact Open-path Detection Of N2O Gas With Low Concentration Of Ppb Level Based On QCL</td>
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<td>Byoung-Uk Sohn, Peng Xing, Dawn T.H. Tan</td>
<td>Singapore Univ of Technology and Design</td>
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<td>11:30–11:45</td>
<td>Oral 2-2P-3</td>
<td></td>
<td>Photoacoustic Spectroscopy Using Remote Optical Measurement System</td>
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<td>Kazuhide Sato, Kazuyoku Tei, Shigeru Yamaguchi, Yoshito Sonoda</td>
<td>Tokai Univ</td>
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Laser-slicing Of Silicon With Nonlinear Laser Lithography

Active Spatial Demultiplexing Of A Single Photon Emitter

Random Numbers From Vacuum Fluctuations

Room-Temperature Capsule-Shaped Wavelength-Scale Metal-Clad Laser Operating At 1550 nm

RF Applications Of Micro-combs

Microwave And RF Applications Of Micro-combs

Invited

Optical Coherence Tomography And Microscopy In Optical Window 3 (1600-1870 nm) For High-resolution Deep-tissue Imaging

3D Laser Microfabrication Of Optical Components And Biomedical Implants

Functional Inks Of Black Phosphorus And Metal Dichalcogenides For Inkjet Printed Saturable Absorbers

Invited

Near Infrared Photomimmonotherapy For Cancer

Optical Coherence Tomography And Microscopy In Optical Window 3 (1600-1870 nm) For High-resolution Deep-tissue Imaging

Room Q: 4712
Black Phosphorus
Presider: Ju Han Lee

Room R: 4713
Optical 3D Microfabrication for Photonics II
Presider: Na Liu

Room S: 4811
Photonics Technologies for Primary Point-of-care and Global Health IV
Presider: Quan Liu

Room T: 4911
Emerging Biotechnologies
Presider: Linbo Liu

10:45–11:15
Oral 2-2Q-1
Invited

Black Phosphorus With Enhanced Stability: From Nonlinear Optics To Photo Induced Biomedical Treatment
Zhinan Guo, Han Zhang
Shenzhen Univ

11:15–11:45
Oral 2-2Q-2
Invited

Functional Inks Of Black Phosphorus With Enhanced Stability: From Nonlinear Optics To Photo Induced Biomedical Treatment
Zhinan Guo, Han Zhang
Shenzhen Univ

10:45–11:15
Oral 2-2R-1
Invited

Strategies For Laser Writing/printing Of Micro-optical Elements
Saulius Juodkazis
Swinburne Univ of Technology

11:15–11:45
Oral 2-2R-2
Invited

3D Laser Microfabrication Of Optical Components And Biomedical Implants
Xinyu Mao, Lijiang Zeng
Tsinghua Univ

11:45–12:00
Oral 2-2P-4

Multimode Interference Based High Sensitivity Refractive Index Sensor By Shining Zeroth Order Bessel-Gauss Beam
Arthendu Saha, Arijit Datta
National Institute of Technology Agartala

12:00–12:15
Oral 2-2P-5

A Comparison Of Terahertz Time Domain Spectroscopy And Terahertz Digital Holography For Large Film Thickness Measurement
Dahi Abdelsalam
National Institute of Standards

12:15–12:30
Oral 2-2O-5

Random Numbers From Vacuum Fluctuations
Yicheng Shi, Brenda Chng, Christian Kurtsiefer
Center for Quantum Technologies

10:45–11:05
Oral 2-2T-1
Invited

Near Infrared Photomimmonotherapy For Cancer
Hisataka Kobayashi
NCI/NIH

11:05–11:20
Oral 2-2T-2

Gold And Silver Nanoparticle Blinking For Stochastic Optical Reconstruction Microscopy Using Standard Microscope Cameras
Changyoung Gao, Meiyu Gai, Luru Dai, Gleb B. Sukhorukov, Andre Sapelkin, Qiang He, Johannes Frueh
Harbin Institute of Technology
Tawfique Hasan  
Univ of Cambridge

11:45–12:15  
Oral 2-2Q-3  
Invited

Nanoscale Nonlinear Optics With Low-dimensional Nanomaterials  
Zhipei Sun  
Aalto Univ

12:15–12:30  
Oral 2-2Q-4

Wideband Tunable Ultrafast Er: Fiber Laser Using Black Phosphorus Saturable Absorber  
Beihang Univ

12:00–12:15  
Oral 2-2S-4

Flexible Optical Fiber Sensor Based On Polyurethane  
Md Rejvi Kaysir, Alessia Stefani, Richard Lwin, Simon Fleming  
The Univ of Sydney

12:15–12:30  
Oral 2-2S-5

Flow Control In Laser-patterned Paper-Based Point-of-care (POC) Diagnostic Devices  
Collin Sones, Peijun He, Ioannis Katis, Robert Eason  
Univ of Southampton

Room A: 4401  
Fiber-Based Technologies and Applications V  
Presider: Fabien Sorin

14:00–14:30  
Oral 2-3A-1  
Invited

Polymer Composite Fibers For Color And Shape Changes

Room B: 4403  
Waveguide Design  
Presider: Shintaro Yamasaki

14:00–14:30  
Oral 2-3B-1  
Invited

Metal-cladded Slot Waveguide For Mid-infrared Third Harmonic Generation

Room C: 4405  
Fiber Grating Sensors II  
Presider: Tong Sun

14:00–14:30  
Oral 2-3C-1  
Invited

Self-sensing Electrical Motor Integrated With Fibre Bragg Gratings (FBGs)

Room D: 4501  
Plasmonics II  
Presider: Niels Asger Mortensen

14:00–14:45  
Oral 2-3D-1  
Keynote

Optical Superoscillation Technologies: Subdiffraction Focusing And Label-free Imaging
### Photonics 2017

**Room E: 4503**  
**Photonic Devices - Emerging Applications**  
**Presider:** Graham Reed

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<th>Time</th>
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| 14:30–15:00 | Oral 2-3A-2 Invited              | Soft-glass Photonic Crystal Fibers: From Advanced Fabrication Techniques To Novel Applications  
Xin Jiang  
Max-Planck Institute for the Science of Light |
| 15:00–15:15 | Oral 2-3B-3                       | Functionalized Optical Fibers  
Noel Healy, Haojie Zhang, Anna Peacock  
Newcastle Univ |
| 15:30–15:45 | Oral 2-3A-4 Invited              | High-Q Silicon Microsphere Whispering Gallery Mode Resonator Fabricated By Laser Induced In-Fiber Capillary Instability  
Jing Zhang, Kaiwei Li, Mengying Zhang, Ting Zhang, Lei Wei  
Nanyang Technological Univ |

**Room F: 4505**  
**High Intensity Ultrafast Phenomena II**  
**Presider:** Raman Kashyap

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| 14:30–15:00 | Oral 2-3B-2 Invited              | Weakly-coupled And Strongly-coupled Multicore Fibers  
Kunimasa Saitoh, Takeshi Fujisawa, Takanori Sato  
Hokkaido Univ |
| 15:00–15:15 | Oral 2-3B-3                       | Broadband Dispersion Compensating Photonic Crystal Fiber With Low Confinement Loss  
Shu-Han Chu, Jui-Ming Hsu, Bing-Liang Wang, Guan-Ru Huang  
National United Univ |
Valerio Romano, Soenke Pilz, Hossein Najafi, Ali El Sayed, Jonas Scheunier, Christoph Bacher, Alexander Heidt, Thomas Feurer, Wooin Shin, Manuel Ryser  
Bern Univ of Applied Sciences |
| 15:30–15:45 | Oral 2-3C-5                      | Optical Heterodyne Micro-vibration Measurement Based On All-fiber Acousto-optic Superlattice Structure  
Wending Zhang, Biaqiang Jiang, Ting Mei, Lin Zhang, Jianlin Zhao  
Northwestern Polytechnical Univ |

**Room G: 4301**  
**Advanced Materials and Structures**  
**Presider:** Kewu Bai

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| 14:30–15:00 | Oral 2-3C-2 Invited              | Excessively Tilted Fiber Grating And Its Sensing Applications  
Zhijun Yan, Chengbo Mou, Chang Eob Kim, Haechan An, Kyoungyoon Park, Yoonchan Jeong  
Seoul National Univ |
| 15:00–15:15 | Oral 2-3C-3                       | Fiber Specklegram Sensor Based On The Twist-induced Effect In Tilted Two-mode Fiber Bragg Gratings  
Yunhe Zhao, Changle Wang, Guolu Yin, Biaqiang Jiang, Kaiming Zhou, Chengbo Mou, Yunqi Liu, Lin Zhang, Tingyun Wang  
Shanghai Univ |
| 15:15–15:30 | Oral 2-3C-4                      | Design And Fabrication Of Compact Spectrometer Based On Gradient Grating Period Guided-Mode Resonance Filter  
Hsin-An Lin, Hsin-Yun Hsu, Chih-Wei Chang  
National Chiao Tung Univ |

**Room H: 4201**  
**Nonlinear Optics in Novel Optical Structures**  
**Presider:** Morandotti Roberto

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Tiejun Cui, Hao Chi Zhang  
Southeast Univ |
| 15:15–15:45 | Oral 2-3D-4 Invited              | Plasmonics And Metasurfaces For Generation And Manipulation Of Optical Wavefronts  
Byoungho Lee  
Seoul National Univ |

**Room I: 4401**  
**Optical Structures**  
**Presider:** Xiaoming Zhang

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| 14:45–15:15 | Oral 2-3D-3 Invited              | Subwavelength Ring Assisted Fresnel Zone Plate For Radially Polarized Light Focusing  
Hyuntai Kim, Jinsob Kim, Haechan An, Kyoungyoon Park, Yoonchan Jeong  
Seoul National Univ |
| 15:45–16:00 | Oral 2-3D-4                       | High-Frequency Ultrafast Soliton Transmission Lines To Optical Wavefronts  
Fukao Zhang  
National Chiao Tung University |

**Room J: 4502**  
**Optical Engineering and Design**  
**Presider:** Tomasz Kowalczyk

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| 16:30–17:00 | Oral 2-3E-5                      | OPTICAL TRANSMISSION LINES WITH HIGH REFRACTIVE INDEX MATCHING  
Tomasz Kowalczyk  
Technical University of Gdansk |

**Room K: 4601**  
**Optical Measurements**  
**Presider:** Daniele Cavaro

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| 16:30–17:00 | Oral 2-3F-6                      | Optical Interferometry for metrology applications  
Matthias Fabian  
University of Southampton |

**Room L: 4701**  
**Optical Sources**  
**Presider:** Dariush Ramezani

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| 16:30–17:00 | Oral 2-3G-7                      | Optical Sources  
Chiara Bonini  
University of Milano-Bicocca |

**Room M: 4801**  
**Optical Materials**  
**Presider:** Peer Fischer

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| 16:30–17:00 | Oral 2-3H-9                      | Optical Materials  
Miguel A. M. Dieguez  
University of Granada |

**Room N: 4901**  
**Optical Systems**  
**Presider:** F. D. Safari

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| 16:30–17:00 | Oral 2-3I-10                     | Optical Systems  
David Grattan  
University of Southampton |
Development Of Mid-infrared Silicon Photonics
Hong Wang
Nanyang Technological Univ

14:00–14:30
Oral 2-3E-1
Invited

High Energy Infrared Laser Technology For Intense High-harmonic Generation
Eiji Takahashi, Yuxi Fu
RIKEN Center for Advanced Photonics

14:00–14:30
Oral 2-3F-1
Invited

High Contrast Metastructures And Photonic Crystals
Connie Chang-Hasnain
Univ of California Berkeley

14:00–14:45
Oral 2-3G-1
Keynote

Gain, Loss And Nonlinearity In Photonic Mesh Lattices
Ulf Peschel, Martin Wimmer
Friedrich Schiller Univ Jena

14:30–14:45
Oral 2-3H-1
Invited

On-chip Optical Diode With Low Power Consumption
Huaqing Qiu, Zhao Cheng, Feng Zhou, Jianji Dong, Xinliang Zhang
Huazhong Univ of Science and Technology

14:30–14:45
Oral 2-3E-2

Millijoule Few-cycle Mid-infrared Pulses At 10kHz Repetition Rate With Stable Phase
Houkun Liang, Zhizhen Qu, Kun Liu, Xiao Zou, Qijie Wang, Ying Zhang
Singapore Institute of Manufacturing Technology

14:30–15:00
Oral 2-3F-2
Invited

Manipulating Vector Optical Beams With Holographic Micro-structures
Jing Wen, Hui Feng, Shiliang Liu, Dawei Zhang
Univ of Shanghai for Science and Technology

14:45–15:15
Oral 2-3G-2
Invited

Recognition Of The Roles Of Lone Pair Electrons In Phase Change Materials
Kewu Bai
Institute of High Performance Computing

15:00–15:30
Oral 2-3F-3
Invited

Low Propagation Loss Ge-on-si Waveguides And Their Dependency On Processing Methods
P. Anantha, Lin Zhang, Wei Li, Xin Guo, Haodong Qiu, Gang Yih Chong, Callum G. Littlejohns, Milos Nedeljkovic, Jordi Soler Penades, Goran Z. Mashanovich, Hong Wang, Chuan Seng Tan
Nanyang Technological Univ

15:00–15:15
Oral 2-3E-3

Mid-Infrared Supercontinuum Generation With Highly Germanium-Doped silica Fiber
Peili Wu, Lulu Wang, Lei Zhu, Ziyang Guo, Zhifang Wu, Xinyong Dong, Perry Ping Shum, Haibing Su
Nanyang Technological Univ

15:30–15:45
Oral 2-3F-4

High Efficiency Operation Of Membrane Distributed-Reflector Laser With Reduced Index Coupling Coefficient Structure
Takuo Hiratani, Daisuke Inoue, Takahiro Tomiyasu, Kau Fukuda, Nagisa Nakamura, Tomohiro Amemiya, Nobuhiako Nishiyama, Shigehisa Arai
Tokyo Institute of Technology

15:45–16:00
Oral 2-3G-4

Nodeless Hollow-core Fiber: Design, Fabrication And Application
Yingyang Wang, Shoufei Gao, Xiaolu Liu, Pu Wang, Wei Ding
Beijing Univ of Technology

15:00–15:30
Oral 2-3H-4
Invited

Progress On Multilayer Silicon Nitride-on-Silicon Integrated Photonic Platforms
Joyce Poon
Univ of Toronto

15:15–15:45
Oral 2-3E-5
Invited

Self-Referenced Light Wave Measurement Of Few-Cycle Mid-Infrared Pulses
Takao Fuji, Hideto Shirai, Yutaka Nomura
Institute for Molecular Science

15:00–15:30
Oral 2-3F-3
Invited

Optical Nonlinearity Of Transparent Conductive Oxides With Tunable Epsilon-near-zero Frequencies
Hui Ye, Ke Wu, Chaonan Chen, Zhewei Wang, Zhejiang Univ

15:30–15:45
Oral 2-3H-5

Double Dispersive Waves Generation In Argon-Filled Hypocycloid-Core Kagome Photonic Crystal Fiber
Fanchoa Meng, Sijia Wang, Junku Liu, Bowen Liu, Yanfeng Li, Chingyue Wang, Minglie Hu
Tianjin Univ

15:45–16:00
Oral 2-3G-4
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<td><strong>Plasmonics and Metamaterials III</strong>&lt;br&gt;Presider: Yu Luo</td>
<td><strong>Optical Wireless Transmission and Novel Technique</strong>&lt;br&gt;Presider: Hoon Kim</td>
<td><strong>Nonlinearity Mitigation Techniques</strong>&lt;br&gt;Presider: Cosimo Lacava</td>
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<td><strong>14:00–14:30</strong>&lt;br&gt;<strong>Oral 2-3J-1 Invited</strong>&lt;br&gt;An Experience Of Taking Univ Research In Photonics To Market&lt;br&gt;Byoung Kim&lt;br&gt;KAIST</td>
<td><strong>14:00–14:30</strong>&lt;br&gt;<strong>Oral 2-3J-1 Invited</strong>&lt;br&gt;Amorphous Metamaterials For Large Scale Deployment Of Effective Day-time Radiative Cooling&lt;br&gt;Xiaobo Yin&lt;br&gt;Univ of Colorado Boulder</td>
<td><strong>14:00–14:30</strong>&lt;br&gt;<strong>Oral 2-3K-1 Invited</strong>&lt;br&gt;High-speed Underwater Wireless Optical Communication Based On Advanced Modulation Formats&lt;br&gt;Jing Xu, Meiwei Kong, Jun Han&lt;br&gt;Zhejiang Univ</td>
<td><strong>14:00–14:30</strong>&lt;br&gt;<strong>Oral 2-3J-1 Invited</strong>&lt;br&gt;Simultaneous Nonlinearity Mitigation Of WDM Signals Based On Complementary Spectral Inverted Optical Phase Conjugation&lt;br&gt;Takeshi Umeki, Kazama Takushi, Sano Akhide, Abe Masashi, Enbutsu Koji, Kobayashi Takayuki, Takenouchi Hirokazu, Kasahara Ryoichi, Miyamoto Yutaka&lt;br&gt;NTT Device Technology Labs</td>
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<td><strong>14:30–15:00</strong>&lt;br&gt;<strong>Oral 2-3J-2 Invited</strong>&lt;br&gt;Building A Photonics Device Company In The 21st Century&lt;br&gt;John Marsh&lt;br&gt;Univ of Glasgow</td>
<td><strong>14:30–15:00</strong>&lt;br&gt;<strong>Oral 2-3J-2 Invited</strong>&lt;br&gt;Integrated Quantum Inspired Photonics&lt;br&gt;Liang Feng&lt;br&gt;SYU at Buffalo</td>
<td><strong>14:30–15:00</strong>&lt;br&gt;<strong>Oral 2-3K-2</strong>&lt;br&gt;Efficient Weibull Channel Model For Salinity Induced Turbulent Underwater Wireless Optical Communications&lt;br&gt;Hassan Makine Oubei, Emna Zedini, Rami T ElAfandy, Abla Kammoun, Tien Khee Ng, Mohamed-Slim Alouini, Boon S Ooi&lt;br&gt;King Abdullah Univ of Science and Technology</td>
<td><strong>14:30–15:00</strong>&lt;br&gt;<strong>Oral 2-3J-2 Invited</strong>&lt;br&gt;Overcoming Deleterious Effects In FWM-based All-Optical Signal Regenerators&lt;br&gt;Kyle Battrill, Liam Jones, Graham Hesketh, Francesca Parmigiani, Periklis Petropoulos&lt;br&gt;Univ of Southampton</td>
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| **15:00–15:30**<br>**Oral 2-3J-3 Invited**<br>Landscape And Future Of Photonic Entrepreneurship In Europe<br>Hendrik Sabert<br>Max Planck Institute for the Science of Light (ultram光阴)

**15:30–16:00**<br>**Oral 2-3J-4 Invited**<br>Intellectual Property Management Consultant<br>Terence Goh<br>IP ValueLab, Singapore | **15:00–15:15**<br>**Oral 2-3J-3**<br>Nano-antennas On Tapered Fiber: A New And Flexible Approach<br>Abdul Khaleque, Jonas H. Osorio, Cristiano M. B. Cordeiro, Marcos A. R. Franco, Haroldo T. Hattori<br>The Univ of New South Wales | **14:45–15:00**<br>**Oral 2-3K-3**<br>Multi-Level Optical Signal Reception By Blur Curved Approximation For Optical Camera Communication<br>Joon-woo Lee, Sung-jin Kim, Sang-kook Han<br>Yonsei univ. | **15:00–15:15**<br>**Oral 2-3J-3**<br>Performance Investigation Of Extended Kalman Filter Combined With Carrier Phase Recovery For Adaptive Nonlinear Phase Noise Mitigation<br>Tong Shu, Yan Li, Miao Yu, Jifang Qiu, Hongxiang Guo, Xiaobin Hong, Jian Wu<br>Beijing Univ of Posts and Telecommunications |
| **14:00–14:30**<br>**Oral 2-3J-1 Invited**<br>Steering Resonance Properties In Terahertz Metamaterials<br>Chunmei Ouyang, Zhen Tian, Jianqiang Gu, Yanfeng Li, Jiaguang Han, Weili Zhang<br>Tianjin Univ | **15:15–15:30**<br>**Oral 2-3J-4**<br>Orbital Angular Momentum And Wavelength Demultiplexing Using Tunable MEMS-based Fabry-Perot Filter Integrated With Spiral Phase Plate<br>Vladimir S. Lyubopityov, Alexey Porfirev, Stanislav Gurbatov, Martin Schumann, Martin Wegener, Sujoy Paul, Mohammadreza Malekzand, Julijan Cesar<br>Technical Univ of Denmark | **14:45–15:00**<br>**Oral 2-3K-3**<br>Bandwidth Tunable MEMS Metamaterials<br>Kailing Shih, Prakash Pitchappa, Chong Pei Ho, Chengkuo Lee<br>National Univ of Singapore | **15:15–15:30**<br>**Oral 2-3J-4**<br>Demonstration Of DP-16QAM WDM Link With In-line Nonlinearity Compensation<br>Benjamin Foo, Bill Corcoran, Arthur Lowery<br>Monash Univ |
## Photonics 2017

### Oral Presentations

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<td>Laser Texturing and Patterning II</td>
<td>Xiangang Luo</td>
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<td>Room N: 4612</td>
<td>Integrated Optical Transceivers</td>
<td>Dawn Tan</td>
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<td>Room O: 4613</td>
<td>Atoms and Their Applications</td>
<td>Hiroki Takesue</td>
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<td>Room P: 4711</td>
<td>Optical Imaging</td>
<td>Lei Su</td>
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#### Room M: 4611 - Laser Texturing and Patterning II
- **15:00–15:15**: Oral 2-3M-3 Invited
  - Recent Research In Capability Development On Laser Surface Texturing Of Metallic Substrates

#### Room N: 4612 - Integrated Optical Transceivers
- **15:30–15:45**: Oral 2-3K-6
  - An Adaptive-Equalizer-less Low-complexity DSP Using Differential Code Shift Keying
    - Asuka Matsushita, Kengo Honikoshi, Seiji Okamoto, Fukutaro Hamaoka, Masanori Nakamura, Yoshiaki Kikuta, Akira Hirano
    - NTT

#### Room O: 4613 - Atoms and Their Applications
- **15:00–15:15**: Oral 2-3N-3 Invited
  - Compact Model Library For Photonic Integrated Circuit Design
    - Xu Wang, Jonas Flueckiger, Jackson Zilong Chen, Mingjie Xin, Wui Seng

#### Room P: 4711 - Optical Imaging
- **15:30–16:00**: Oral 2-3L-5 Invited
  - Polarization Insensitive Phase Conjugation Using FWM In Semiconductor Optical Amplifiers
    - Aneesb Sbhan, Deepa Venkitesh
    - IIT Madras

### Invited Presentations
- **14:00–14:15**: Oral 2-3M-1 Invited
  - Ultrasonic Vibration Assisted Laser Dissimilar Welding Of Nickel Based Alloy And Austenite Stainless Steel
    - Dongjiang Wu, Siyu Zhou, Dongsheng Chai, Guangyi Ma, Mingkai Lei
    - Dalian Univ of Technology

- **14:00–14:15**: Oral 2-3N-1 Invited
  - Silicon Photonics For High-capacity Optical Interconnects
    - Xiaolu Song, Zhen Dong, Qing Zhao, Lei Gao, Jun Liu, Chengcheng Gui, Shengmeng Fu, Li Zeng
    - Huawei Technologies Co., Ltd.

- **14:30–14:45**: Oral 2-30-1 Invited
  - Einstein-Podolsky-Rosen Entanglement Of Narrowband Photons From Cold Atoms
    - Jong-Chan Lee, Kwang-Kyun Park, Tian-Ming Zhao, Yoon-Ho Kim
    - POSTECH

- **14:15–14:30**: Oral 2-3P-2 Invited
  - Strong Optical Nonlinearities In Hollow-core Photonic-crystal Fibers Loaded With Ensembles Of Cold Atoms
    - Taehyun Yoon, Jeremy Flannery, Michal Bajcsy
    - Univ of Waterloo

- **14:30–14:45**: Oral 2-3P-3 Invited
  - Atom Interferometry Inside A Hollow-Core Photonic Crystal Fiber
    - Zilong Chen, Mingjie Xin, Wui Seng
    - UCLA

- **14:30–14:45**: Oral 2-3P-3 Invited
  - Spatial Coherence Reduction For Speckle Free Imaging Using Electroactive Rotational Optical Diffusers
    - Rohith Thazhe Madam, Hamid Farrokhi, Jeeranan Boonruangkan, Venkitesh Travadi
    - Nanyang Technological University
Graphene-based Ultrathin Optical Components Printed By Femtosecond Laser Direct Writing Method
Hyub Lee, Mun Ji Low, Chin Huat Joel Lim, Vadokke Matham Murukeshan, Young-Jin Kim
Nanyang Technological University

15:45–16:00
Oral 2-3M-5
Optical Study Of Light-emitting Biopolymer Based On Deoxyribonucleic Acid-cetyltrimethylammonium Chloride Doped With Riboflavin
Woohyun Jung, Seongjin Hong, Taeoh Kim, Kyunghwan Oh
Yonsei University

15:30–15:45
Oral 2-3N-5
Broadband Slow-light Enhancement Of Nonlinear Effects With Plasmonic Structures
Guangyuan Li, C. Martijn De Sterke, Stefano Palomba
The University of Sydney

15:30–15:45
Oral 2-3O-5
Invited
Photonic Devices Based On Transition Metal Dichalcogenides
Kim Young-Jin
Nanyang Technological University

15:30–15:45
Oral 2-3P-5
Invited
Pre-clinical And Clinical Photoacoustic Imaging Systems
Wen Chen
The Hong Kong Polytechnic University

15:30–15:45
Oral 2-3P-6
Turbid Media Image Enhancement With Nonlinear Optical Augmented Intensity Correlated Imaging
Jing Yang
Technical institute of physics and chemistry, Chinese academy of sciences

15:45–16:00
Oral 2-3P-7
Static Evaluation Of One Shot 3D Surface Imaging Using Digital Colored Fringe Projection Technique
Naila Zahra, Suprijanto, Endang Juliastuti
Institut Teknologi Bandung

Room Q: 4712
Transition Metal Dichalcogenides
Presider: Han Zhang

Room R: 4713
The Role of Optics in Fronthaul and Backhaul for 5G Networks and Beyond I
Presider: Frank Effenberger

Room S: 4811
Photonics Technologies for Primary Point-of-care and Global Health V
Presider: Gerd Keiser

Room T: 4911
Fiber Optics and Waveguide for Biomedicine
Presider: Fake Lu

14:00–14:30
Oral 2-3Q-1
Invited
Photonic Devices Based On Transition Metal Dichalcogenides

14:00–14:30
Oral 2-3R-1
Invited
TWDM-PON Technology And Beyond For 5G MFH

14:00–14:30
Oral 2-3S-1
Invited
Pre-clinical And Clinical Photoacoustic Imaging Systems

14:00–14:15
Oral 2-3T-1
Simultaneous Operation Of Laser Ablation And Temperature Monitor Using Single Optical Fiber For Hyperthermia
2D Materials and Their Applications for Saturable Absorbers
Young Min Jhon, Ju Han Lee
Korea Institute of Science and Technology

Layered 2D Semiconductors For Nonlinear Optical Applications
Jun Wang
Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

Fibre To The Antenna In Cloud And Virtual RAN Models
Philippe Chanclou, Luiz Anet Neto
Orange Labs Network

Fast Fluorescence Lifetime Imaging Microscopy For Biomedical Diagnosis
Dug Young Kim, WonSang Hwang, DongEun Kim
Yonsei Univ.

0dBm Threshold Of ECD Method To Drive TMDs Depositing
Hao Wang, Kan Wu, Jianping Chen
Shanghai Jiaotong Univ

Deep Brain Calcium Signal Measurements By Using Optical Fiber Based Methods
Ling Fu
Huazhong Univ of Science and Technology

Micro-optical Coherence Tomography Endoscopic Imaging Of Rat Colon Ex Vivo
Yuemei Luo, Linbo Liu
Nanyang Technological Univ

Depth-of-focus Extended Common-path Probe OCT System
Jinhan Li, Linbo Liu
Nanyang Technological Univ
Photonics 2017

16:15–16:45
Oral 2-4A-1
Invited

Photon-phonon Interaction In Nano-waveguides
Paulo Dainese
Gleb Wataghin Physics Institute, Univ of Campinas

16:15–16:30
Oral 2-4B-1

Miniature Fiber Mach-Zehnder Interferometer Using A Polymer Filled Hollow Core Fiber
Meng-Shan Wu, Shi-Hong Luo, Cheng-Ling Lee, Chung-Fen Lee
National United Univ

16:15–16:45
Oral 2-4C-1
Invited

Simultaneously Detection on Temperature and Stress Distributions of Fiber Reinforced Polymer Rod with Optical Fiber Sensor
Wen Chen, Ming Tang
Huazhong Univ of Science and Technology

16:15–16:45
Oral 2-4D-1
Invited

Waveguiding Nanowires For Nanophotonic Applications
Limin Tong
Zhejiang Univ

16:45–17:15
Oral 2-4A-2
Invited

Quantum Photonics With Optical Nanofibers
Kohzo Hakuta, Koli Nayak, Ramachandrarao Yalla
Univ of Electro-Communications

16:30–17:00
Oral 2-4B-2
Invited

Optical Fiber Sensors Based On The Special Dual-mode Fiber With Critical Wavelength
Xiaopeng Dong
Xiamen Univ

16:45–17:15
Oral 2-4C-2
Invited

All-fiber Devices Based On Low Dimensional Materials And Their Optoelectronic And Sensing Applications
Fei Xu
Nanjing Univ

17:00–17:30
Oral 2-4B-3
Invited

Optical Fibre Sensors For Depth (Pressure) Measurement On Remote Operated Vehicles In Underwater Applications
Elfed Lewis
Univ of Limerick

17:15–17:30
Oral 2-4C-3

Room Temperature D-shaped Optical Fiber Sensor Coated With CNT For Ethanol Remote Detection
Suriati Paiman, H.N. Lim, N.A. Yusof, Ahmed Lateef Khalof
Univ Putra Malaysia

16:45–17:00
Oral 2-4D-3
Invited

Giant Enhancement And Control Of Second-Harmonic Radiation From AlGaAs Nanoantennas
Mohsen Rahmani, Sergey Kruk, Rocio Camacho-Morales, Lei Xu, Hoe Tan, Chennupati Jagadish, Yuri Kivshar, Dragomir Neshev
Australian National Univ

17:15–17:00
Oral 2-4A-3
Invited

Electrical Charging In Micro Optical Fiber And Its Applications
Non-Kuang Chen, Raman Kashyap, Xiaoguang Zhang, Wood-Hi Cheng, Chinton Lin
National United Univ

17:00–17:30
Oral 2-4B-4
Invited

Microstructured Optical Fiber Sensors For Distributed Gas Detection
Wei Jin
The Hong Kong Polytechnic Univ

17:30–18:00
Oral 2-4C-4

Wearable Photosensor Devices Based On RGO-coated Fabrics
Qing Mi, Qi Wang, Zhaoer Chai, Hao Liu, Guoming Mao, Xiaomin Ren
Beijing Univ of Posts and Telecommunications

17:00–18:00
Oral 2-4D-4
Invited

Ultraprecise Nanophotonics At The Fibre Surface
Michael Sumetsky
Aston Institute of Photonics Technologies

17:45–18:00
Oral 2-4C-5

Graphene Diaphragm-based Extrinsic Fabry-Perot Interferometer For Low Frequency Fiber Acoustic Sensing
Wenjun Ni, Ping Lu, Deming Liu, Jiangshan Zhang
Huazhong Univ of Science and Technology
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<td><strong>MIR and THz Devices</strong></td>
<td><strong>Advanced Photonic Integration</strong></td>
<td><strong>Frequency Combs and Precision Measurements</strong></td>
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<td>Presider: Xuewen Shu</td>
<td>Presider: Xingjun Wang</td>
<td>Presider: Cundiff Steven</td>
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### Room E: 4503
#### Silicon-on-insulator And Germanium-on-silicon Free Carrier Modulators For Mid-infrared Wavelengths
- **Invited**
- Milos Nedeljkovic, Univ of Southampton

### Room F: 4505
#### 130GHz Broadband Mach-Zehnder Hybrid Electro-Optic Polymer/Sol-Gel Silica Waveguide Modulators
- **Invited**
- Yasufumi Enami, Atsushi Seki, Masuda Shin, Jingdong Luo, Alex Jen, Kochi Univ of Technology

### Room G: 4301
#### TIM Photonics Integration Chip For High-speed Optical Communication
- **Invited**
- Xingjun Wang, Peking Univ

### Room H: 4201
#### Femtosecond Frequency Comb Development for the European Extremely Large Telescope
- **Invited**
- Deryck Reid, Heriot-Watt Univ

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**Oral 2**
- **16:15–16:45**
  - **Room 2-4F-1**
  - Tuning The Plasmonic Response In Terahertz Range
  - Jinghua Teng, A*STAR
- **16:45–17:15**
  - **Room 2-4F-2**
  - Terahertz Photonic Devices For Frequency Comb Operation And Fast Detection
  - Hua Li, Wen-Jian Wan, Jun-Cheng Cao, Shanghai Institute of Microsystem and Information Technology, CAS
- **17:00–17:15**
  - **Room 2-4E-3**
  - Silicon Modulators For 25 Gb/s Photonic Platforms
  - Thomas Ang, Ching Eng Jason Png, Soon Thor Lim, Junrong Ong, Institute of High Performance Computing
- **17:15–17:30**
  - **Room 2-4F-3**
  - Passive And Active Broadband Terahertz Antireflector
  - Lu Ding, Renbin Yang, Xizu Wang, Soo Seng ANG, Hong Kuan NG, Shien Fu Lih, Liang Cheng, Ee Min Chia, Jinghua Teng, A*STAR
- **17:30–17:45**
  - **Room 2-4F-4**
  - Low Thermal Stress Mo-AlN-Mo Platform For Metamaterial Based Mid-IR Absorber
  - Dihan Hasan, Chengkuo Lee, National Univ of Singapore
- **17:45–18:00**
  - **Room 2-4F-5**
  - Confined Surface Waves in 2D Dielectric Materials
  - Alexander M. Dubrovkin, Bo Qiang, Horish N. S. Krishnamoorthy, Nikolay I. Zheludev, Qjie Wang, Nanyang Technological Univ

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**Oral 2**
- **16:45–17:00**
  - **Room 2-4G-2**
  - Electron Trapping/detrapping Model In Electrically Stressed Oxide
  - Hongyi Wang, National Univ of Defense Technology
- **17:00–17:15**
  - **Room 2-4G-3**
  - Demonstration Of Novel Media Conversion Method From Optical To THz-wave Networks
  - Younjin Kim, Yusuke Yamanaka, Kazutoshi Kata, Kyushu Univ
- **17:15–17:45**
  - **Room 2-4G-5**
  - Stochastic Photonics: Tools And Approaches For The Analysis And Optimization Of Integrated Circuits
  - Daniele Melati, Abi Waqas, Andrea Melloni, Politecnico di Milano
- **17:45–18:00**
  - **Room 2-4G-6**
  - Coherent PM RF Photonic Link On Chip PIC
  - Longtuo Xu, Shilei Jin, Yifei Li, Ding Ding, Univ of Massachusetts Dartmouth

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**Oral 2**
- **16:45–17:00**
  - **Room 2-4H-2**
  - Composite Soliton-dipole Pairs In Parity-time Symmetric Optical Lattices With Higher-order Diffraction
  - Lijuan Ge, Suzhou Univ of Science and Technology
- **17:15–17:30**
  - **Room 2-4H-3**
  - Nonlinear SNAP Bottle Resonators For Frequency Comb Generation
  - Sergey Suchkov, Mikhail Sumetsky, Andrey Sukhorukov, The Australian National Univ
- **17:30–17:45**
  - **Room 2-4H-4**
  - Sub-Femtosecond Coherent Control Of Electron-Phonon Coupled State In GaAs By Phase-Locked Dual Pulse
  - Yasuke Koyanuma, Kensuke Yokota, Nakamura Kazutaka, Tokyo Institute of Technology
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<td>Presider: Tianwan Bo</td>
<td>Presider: Tetsuya Kawanishi</td>
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**Room I: 4812**

- **16:15--16:45** Oral 2-4J-1 Invited
  - **Hologram-type Illusion With Metasurfaces**
    - Jensen Li
    - Univ of Birmingham

- **16:45--17:00** Oral 2-4J-2
  - **Photon Sieves For High Tolerance Hologram And Optical Vortex Generation**
    - Jinghua Teng
    - A*STAR

- **17:00--17:15** Oral 2-4J-3
  - **Excitation Of Collective Plasmonic Modes And Photoluminescence Enhancement In The Al Nanocylinder Array**
    - Shunsuke Murai, Motoharu Saito, Saho Oka, Hiroyuki Sakamoto, Ryosuke Kamakura, Koji Fujita, Katsuhisa Tanaka
    - Kyoto Univ

- **17:15--17:30** Oral 2-4J-4
  - **Low-side-band Reflective Plasmonic Structural Colors Based On Metallic Nanowire Gratings**
    - Jun Zheng, Zhicheng Ye
    - Shanghai Jiao Tong Univ

**Room J: 4912**

- **16:15--16:45** Oral 2-4K-1 Invited
  - **Transmission Techniques For Short Reach Optical Communication Systems**
    - Chao Lu, Kangping Zhong, Xian Zhou, Jiahao Huo, Alan Pak Tao Lou, Changyuan YU, Alexander Ping Kong Wai
    - The Hong Kong Polytechnic Univ

- **16:45--17:00** Oral 2-4K-2
  - **Beyond 100-Gb/s Single Sideband Direct Detection Using Multi-core Fiber And SSBI Elimination**
    - Ying Wang, Zhen Wang, Ying Shen, Wei Liu, ShanHong You, Xiang Li, Ming Luo, Qi Yang
    - Soochow Univ

- **17:00--17:15** Oral 2-4K-3
  - **Hilbert Superposition Based On Direct-Detection For Single Sideband Optical NPAM-4 Signal**
    - Mingyue Zhu, Jing Zhang, Xingwen Yi, Shaohua Hu, Yang Song, Bo Xu, Ning Jiang, Kun Qiu
    - Univ of Electronic Science and Technology of China

- **17:15--17:45** Oral 2-4K-4 Invited
  - **Low-side-band Reflective Plasmonic Structural Colors Based On Metallic Nanowire Gratings**
    - Jun Zheng, Zhicheng Ye
    - Shanghai Jiao Tong Univ
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<td><strong>Photonics</strong>&lt;br&gt;Presider: Ping Koy Lam</td>
<td><strong>Optical Sensor Technology III</strong>&lt;br&gt;Presider: William Wadsworth</td>
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<td>16:15–16:45&lt;br&gt;Oral 2-4O-1&lt;br&gt;Invited</td>
<td>16:15–16:45&lt;br&gt;Oral 2-4P-1&lt;br&gt;Invited</td>
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<td>Transverse Mode Instabilities: The End Of The Road For High-power Fiber Laser Systems?&lt;br&gt;Cesar Jauregui, Christoph Stihler, Jens Limpert, Andreas Tunnemann&lt;br&gt;Friedrich-Schiller Univ Jena</td>
<td>Nanowire Integrated Photonics On Si&lt;br&gt;Zetian Mi&lt;br-Univ of Michigan</td>
<td>Solving Large-scale Optimization Problems With Coherent Ising Machine&lt;br&gt;Hiroki Takesue, Takahiro Inagaki, Kensuke Inaba, Toshimori Honjo&lt;br&gt;NTT Corporation</td>
<td>Long-distance Distributed Fiberoptic Sensing Systems&lt;br&gt;Yunjiang Rao&lt;br-Univ. of Electronic Science &amp; Technology of China</td>
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<td>16:45–17:00&lt;br&gt;Oral 2-4O-2&lt;br&gt;Invited</td>
<td>16:45–17:00&lt;br&gt;Oral 2-4P-2</td>
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<td>Coherent Combining With Active Phase Control: A Practical Tool For Adaptive And Nonlinear Optics&lt;br&gt;Pierre Bourdon&lt;br-ONERA - The French Aerospace Lab</td>
<td>Subwavelength Grating Metamaterial Engineering For Silicon Nanophotonic Devices&lt;br&gt;Pavel Cheben&lt;br-National Research Council, Canada</td>
<td>Thermal Equilibrium Of Photons And Lasing Without An Overall Inversion In Standard Erbium-Doped Fibers&lt;br&gt;Rafi Weill, Alexander Bekker, Boris Levit, Michael Zhurahov, Baruch Fischer&lt;br-Technion</td>
<td>Plasmonic Phase Change In Metal Nanostructures By Frequency-comb-based Spectrally Resolved Interferometry&lt;br&gt;Duy Anh Nguyen, Byung Jae Chun, Young-Jin Kim&lt;br-School of Mechanical and Aerospace Engineering, Nanyang Technological Univ (NTU)</td>
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<td><strong>Carbon Nanomaterials</strong>&lt;br&gt;Nanocarbon Materials For Short Pulse Lasers&lt;br&gt;Shinji Yamashita&lt;br&gt;The Univ of Tokyo</td>
<td>The Role of Optics in Fronthaul and Backhaul for 5G Networks and Beyond II&lt;br&gt;Fixed-mobile Convergence In Optical Metro-access Networks&lt;br&gt;Thomas Pfeiffer&lt;br&gt;Nokia Bell Labs</td>
<td>Photonics Technologies for Primary Point-of-care and Global Health VI&lt;br&gt;Implantable Microphotonic Device For Brain Imaging And Manipulation&lt;br&gt;Jun Ohta, Takashi Tokuda, Kiyotaka Sasagawa, Toshihiko Noda, Makito Haruta&lt;br&gt;Nara Institute of Science and Technology</td>
<td>Coherence Domain Imaging Technologies&lt;br&gt;Optical Coherence Elastography - Optical Coherence Tomography At Work In Soft Tissue Mechanics&lt;br&gt;David Sampson&lt;br&gt;The Univ of Western Australia</td>
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<td>16:15–16:45&lt;br&gt;Oral 2-4Q-1&lt;br&gt;Invited</td>
<td>16:15–16:45&lt;br&gt;Oral 2-4R-1&lt;br&gt;Invited</td>
<td>16:15–16:45&lt;br&gt;Oral 2-4S-1&lt;br&gt;Invited</td>
<td>16:15–16:35&lt;br&gt;Oral 2-4T-1&lt;br&gt;Invited</td>
</tr>
<tr>
<td>Nanocarbon-based Saturable Absorbers For Ultrafast Lasers&lt;br&gt;Fabian Rotermund&lt;br&gt;KAIST</td>
<td>A New Optical Network For 5G Transport&lt;br&gt;Fabio Cavaliere, Paola Iovanna, Luca Valcarenghi, Koteswararao Kondepu, Piero Castoldi&lt;br&gt;Ericsson</td>
<td>Real-time Imaging Of Microcirculation Using Laser Speckle: From Techniques To Pre-clinic Applications&lt;br&gt;Pengcheng Li, Jinling Lu, Yang Wang, Yangyang Li&lt;br&gt;Huazhong Univ of Science and Technology</td>
<td>Single-shot Spectral Multiplexing Polarization Sensitive Optical Coherence Tomography For Local Retardation Measurement&lt;br&gt;Xinyu Liu, Qiaozhou Xiong, Nanshuo Wang, Linbo Liu&lt;br&gt;Nanyang Technological Univ</td>
</tr>
<tr>
<td>Optical Nonlinearities In Graphene Plasmonics For Optical Modulation&lt;br&gt;Xing Peng, Kelvin J. A. Ooi, Dawn T. H. Tan</td>
<td>Optical Nonlinearities In Graphene Plasmonics For Optical Modulation&lt;br&gt;Xing Peng, Kelvin J. A. Ooi, Dawn T. H. Tan</td>
<td>A Novel Design Of Ultrafast Electron Switching Device With Record Speed&lt;br&gt;Wei Huang, Shijun Liang, Elisa Kyoseva, Lay Kee Ang&lt;br&gt;Singapore Univ of Technology and Design</td>
<td>Wavefront Engineering For High-</td>
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</table>
17:30–17:45
Oral 2-4Q-4
Erbium-doped Fiber Laser
Passively Mode-locked By Three-dimensional Graphene Saturable Absorber Functioned With Evanescent Field Interaction
Ye Yang, Arokiaswami Alphones
Nanyang Technological Univ

17:45–18:00
Oral 2-4Q-5
Holographic Shaping Of Femtosecond Laser Pulses And Its Applications
Kumagai Kota, Hayasaki Yoshio
Utsunomiya Univ

17:45–17:45
Invited
Automated Laser Tracking And Optogenetic Manipulation System And Serial Thick-slice Tomography For Neuron Behavior Map
Yen-Yin Lin
National Tsing Hua Univ

17:45–18:00
Oral 2-4G-4
Mobile-platform For Automatic Fever Screening System Based On Infrared Forehead Temperature
Armothe Somboonkaew, Panintorn Prempee, Sirajit Vuttivong, Jutaphet Wetcharungsri, Supanit Porntheeraphat, Sataporn Chanhorm, Prasit Pongsoom, Ratthasart Amarit, Yuttana Intaravanne, Kosom Chaitavon, Sarun Sumriddetchkajorn
National Science and Technology Development Agency (NSTDA)

17:45–18:00
Oral 2-4T-6
Optical Coherence Tomography With Gapped Spectrum
Nanshuo Wang, Xinyu Liu, Xiaojun Yu, Si Chen, Shi Chen, Linbo Liu
Nanyang Technological Univ

17:15–17:45
Oral 2-4G-3
Network For Supporting High-Bandwidth Low-Latency Fronthaul In 5G Wireless
Lei Zhou, Xiang Liu, Huaiyu Zeng, Sharief Megeed, Frank Effenberger
Huawei Technologies

17:10–17:25
Oral 2-4T-4
Depth-of-focus Extended Optical Coherence Tomography Using Synthetic Aperture Compounding
Xuan Wu, Xinyu Liu, En Bo, Xiaojun Yu, Qiaozhou Xiong, Linbo Liu
Nanyang Technological Univ

18:00–18:15
Oral 2-4T-7
Sample Birefringence Artifacts Mitigation In High Resolution Polarization Sensitive OCT
Qiaozhou Xiong, Xinyu Liu, Nanshuo Wang, Si Chen, Shufen Chen, Linbo Liu
Nanyang Technological Univ

17:45–18:00
Oral 2-4T-5
Polarization- And Wavelength-resolved Endoscopy-Practical Approaches For In Vivo Imaging
Daniel Elson
Imperial College London

17:25–17:45
Oral 2-4T-5
Invited
Enhanced Graphene/Au Plasmonic Sensing Surface For The Detection Of Anti-Angiogenin Proteins
Li Jiang, Jinguang Tong, Ken-Tye Yong, Sailing He
Zhejiang Univ

17:00–17:15
Oral 2-4Q-3
Network For Supporting High-Bandwidth Low-Latency Fronthaul In 5G Wireless
Lei Zhou, Xiang Liu, Huaiyu Zeng, Sharief Megeed, Frank Effenberger
Huawei Technologies

17:10–17:25
Oral 2-4T-4
Depth-of-focus Extended Optical Coherence Tomography Using Synthetic Aperture Compounding
Xuan Wu, Xinyu Liu, En Bo, Xiaojun Yu, Qiaozhou Xiong, Linbo Liu
Nanyang Technological Univ

18:00–18:15
Oral 2-4T-7
Sample Birefringence Artifacts Mitigation In High Resolution Polarization Sensitive OCT
Qiaozhou Xiong, Xinyu Liu, Nanshuo Wang, Si Chen, Shufen Chen, Linbo Liu
Nanyang Technological Univ
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<th>Room F: 4505</th>
<th>Room G: 4301</th>
<th>Room H: 4201</th>
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<tr>
<td>Nonlinear Optics and Signal Processing</td>
<td>Infrared Technology and Applications</td>
<td>Advanced Devices and Circuits</td>
<td>Fiber Lasers and Novel Waveguides</td>
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<td>Presider: Graham Reed</td>
<td>Presider: Daohua Zhang</td>
<td>Presider: John Marsh</td>
<td>Presider: Kan Wu</td>
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</table>

**Ultrafast Optical Signal Processing On Silicon Based Platforms With High Nonlinear Figure Of Merit**

Dawn Tan  
Singapore Univ of Technology and Design

**New Science And Technologies In The Infrared**

Martin Richardson  
Univ of Central Florida

**Integrated Gratings For Novel Photonic Integrated Circuits**

John Marsh, Liaping Hou  
Univ of Glasgow

**Ultrafast Optical Signal Processing On Silicon Based Platforms With High Nonlinear Figure Of Merit**

Dawn Tan  
Singapore Univ of Technology and Design

**Arbitrarily Shapeable, Octave-spanning And Single-cycle Mid-infrared Source By Adiabatic Frequency Conversion**

Peter Kroger, Haim Suchowski, Houkun Liang, Noah Flemens, Kyung-Han Hong  
Massachusetts Institute of Technology

**Characterizations Of DNA Biopolymer-based Rewritable Memory Devices**

Huei-Yau Jeng, Tzu-Chien Yang, Chao-You Hung, Yu-Chueh Hung  
National Tsing Hua Univ

**Analysis Of Enhanced Four-wave Mixing In Integrated Silicon-graphene Oxide Hybrid Waveguides**

Yunyi Yang, Jiaoyang Wu, Xingyuan Xu, Yao Liang, Jia Baohua, David Mass  
Swinburne Univ of Technology

**Nonlinear Infrared Spectroscopy Free From Spectral Selection**

Anna Paterova, Lung Shaw, Dmitry Kalashnikov, Leonid Krivitsky  
DSI A*STAR

**Z Transform Techniques In The Design Of Mach-Zehnder Modulators**

Regan Klein, Duncan MacFarlane  
Southern Methodist Univ

**Four-Wave-Mixing Based Silicon Integrated Optical Isolator With Dynamic Non-Reciprocity**

Ke Wang, Shitao Gao, Yang Wang, Ampalavanapillai Nirmalathas,  
Peking Univ

**Linearity And Resolution Of On-chip Brillouin Filters For RF And Optical Communications**

Amol Choudhary, Nathaniel Seil, Mark Pelusi, Khu Vu, Pan Ma, Duk-Yong Choi, Stephen Madden, David Marpaung, Benjamin Eggleton  
CUDOS, Univ of Sydney

**2 μm Pulse Compression Using Gas-filled Negative Curvature Hollow-core Fiber**

Elizabeth Lee, Yong Sen Chung, Xia Yu, Qijie Wang, Fei Yu, Jonathan Knight  
Nanyang Technological Univ

**Single Nanoparticle Detection Using Optical Microwavities**

Yun-Feng Xiao  
Peking Univ

**GVD Control Of Low Loss Slot Photonic Crystal Waveguides For Hybrid Silicon Photonics**

Samuel Serna, Weiwei Zhang, Xavier Le Roux, Laurent Vivien, Eric Cassan  
Université Paris Sud - Université Paris-Saclay

**Nonlinear Optical and Signal Processing Engineering, Peking Univ**

Nirmalathas,  
Peking Univ

**Free From Spectral Selection Nonlinear Infrared Spectroscopy**

Yunyi Yang, Jiayang Wu, Xingyuan Xu, Yao Liang, Jia Baohua, David Mass  
Swinburne Univ of Technology

**Newly Developed 1.7 um Band External Cavity Laser And Its Application To Evaluation Of Ethanol Concentration In Distilled Spirits**

Jun Ono, Maa-Chieh Hsu, Yuma Honda, Akihiro Maeda, Fumiki
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<tr>
<td>09:45–10:00</td>
<td>Oral 3-1G-5</td>
<td>Precise Lens-assembly Techniques Based On Adhesive Bonding And Hammering For Compact 100Gbe Tosa</td>
<td>Keita Mochizuki, Tadashi Murao, Yoshiyuki Kamo, Nobuyuki Yasui, Masatomo Mikuni, Koji Kamiyama, Takahiro Yoshimoto, Daishuke Echizenya, Masaya Shimono, Chisato Sana, Hidekazu Kodera, Masamichi Nogami, Mitsubishi Electric Corporation</td>
</tr>
<tr>
<td>10:00–10:15</td>
<td>Oral 3-1F-5</td>
<td>Dynamics Of CO2 Laser-induced Thermal Breakdown In Water</td>
<td>Man Hu, Feng Wang, Daosheng Deng, Fudan Univ</td>
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<td>10:00–10:15</td>
<td>Oral 3-1G-6</td>
<td>Ray Dynamics And Mode Characteristics Of Square Microcavities With Circular Sides</td>
<td>Yue-De Yang, Institute of Semiconductors, CAS</td>
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<td>10:15–10:30</td>
<td>Oral 3-1G-7</td>
<td>Investigation Of Coulomb Interactions Of An Electrically Pumped Polariton Condensate Subhaskar Mandal, Ge Rongchun, Martin Klaas, Anthor Matthias, Sebastian Klem, Lukas Worschech, Christian Schneider, Sven Hoeft, Timothy C.H Liew, Nanyang Technological Univ</td>
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<tr>
<td>09:45–10:15</td>
<td>Oral 3-1H-5</td>
<td>Design And Fabrication Of Nano-carbon Saturable Absorbers For Fiber Lasers</td>
<td>Martinez Amos, Aston Univ</td>
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**Room I: 4812**
Photons Global Student Conference 2017 I
Presider: Jing Zhang

- **08:30—9:15**
  - Oral 3-1I-1 Keynote
  - Subcellular Surgery And Nanosurgery
    - Eric Mazur, Harvard Univ
  - 09:15—09:30
  - Oral 3-1I-2

- **09:15—09:45**
  - Oral 3-1J-2 Invited
  - Controlling The Angular Momentum Of Light With Metasurfaces
    - Robert Devlin, Antonio Ambrosio,

**Room J: 4912**
New Phenomena in 2D Materials
Presider: Yidong Chong

- **08:30—9:15**
  - Oral 3-1J-1 Keynote

- **09:00—9:15**
  - Oral 3-1K-2

**Room K: 4203**
SDM Transmission
Presider: Koji Igarashi

- **08:30—9:00**
  - Oral 3-1K-1 Invited

- **09:00—9:15**
  - Oral 3-1K-2

- **09:00—9:30**
  - Oral 3-1L-2 Invited

**Room L: 4303**
Visible Light Communication Systems
Presider: Pooi Yuen Kam

- **08:30—9:00**
  - Oral 3-1L-1 Invited

- **09:00—09:30**
  - Oral 3-1L-2 Invited

- **09:00—10:00**
  - Oral 3-1L-3

**Visible Light For Vehicular Communications.**
Zabih Ghasemlooy, Northumbria Univ
2D Materials Polaritons
Tony Low
Univ of Minnesota

Manipulation Of Vector Solitons From Atoms To Molecules
Yiyang Luo, Luming Zhao, Qizhen Sun, Li Lei, Songnian Fu, Dingyuan Tang, Deming Liu
Huazhong Univ of Science and Technology

Semiconductor-Superconductor Optoelectronic Devices
Hayat Alex
Technion

09:45—10:00
Oral 3-1L-4
Numerical Analysis Of Mode Propagation And Coupling In Multimode Fibers
Nicholas Wong, Yongmin Jung, Shaiful Alam, Periklis Petropoulos, David Richardson
Univ of Southampton

09:45—10:15
Oral 3-1J-3 Invited
Selective Tunable Optical Stark Effect In Atomically Thin ReS2
Doonee Lee, Sangwan Sim, Minji Nah, Soonyong Cha, Chan Ho Soh, Ji Ho Sung, Sungjun Cho, Wooyoung Shim, Moon-Ho Jo, Hyunyoung Choi
Yonsei Univ.

10:15—10:30
Oral 3-1J-4
Ultra-Long-Haul Multicore Fiber Transmission Over 5,000 Km Using Cladding Pumped Seven-Core EDFA
Yu Kawaguchi, Takehiro Tsuritani
KDDI Research, Inc.

10:30—10:45
Oral 3-1K-4
Experimental Characterization Of Step-Index Few-Mode Fiber For Weakly-Coupled 10-Mode-Multiplexed Transmission
Yuta Wakayama, Daiki Soma, Koji Igarashi, Hidenori Taga, Takehiro Tsuritani
KDDI Research, Inc.

10:45—11:00
Oral 3-1K-5
Passive Optical Delivering Network Using Conventional Graded-index Multi-Mode Fiber With Mode Division Multiplexing And Sub-Carrier Multiplexing
Bishal Poudel, Katsushi Iwashita, Hirokazu Kobayashi, Joji Oshima, Yuki Morizumi
Kochi Univ of Technology
Generation Of Powerful Ultrashort Raman Pulses Near 1.3 Micron In External Phosphosilicate-fiber Cavity
Denis Kharenko, Vlad Efremov, Sergey Babin
Institute of Automation and Electrometry, SB RAS

Temporal And Spatial Manipulations Of Pulsed Fiber MOPA Outputs For Energy Efficient Manufacturing
Shaif-ul Alam, Di Lin, Neda Baktash, David Richardson
Univ of Southampton

Self-starting And Environment Stable 500 MHz Repetition Rate Femtosecond Yb:fiber Laser With Non-polarization Maintaining Fiber
Guangyu Liu, Bo Wang, Xinghe Jiang, Aimin Wang, Zhigang Zhang
Peking Univ

Diode Pumped Dy: YAG Yellow Laser
Qiaojun Ju, Jing Gao
Suzhou Inst Biomed Engin Tech, CAS

Advances In Biophotonics For Translational Medicine
Malini Olivo
Bio-Optical Imaging Group, Singapore Bioimaging Consortium, A*STAR

Overarching Framework Between Gaussian Quantum Discord And Gaussian Quantum Illumination
Mark Bradshaw, Syed Assad, Jing Yan Haw, Si-Hui Tan, Ping Koy Lam, Mile Gu
Australian National Univ

Regulable Photon Bunching And Anti-Bunching In Quantum Dot-Bimodal Cavity Coupling System
Chengwang Zhao, Han Ye, Xiang Cheng, Zhongyuan Yu, Yumin Liu, Yanran Kang
Beijing Univ of Posts and Telecommunications

A Career In Scientific Publishing And Editing
Rachel Won
Nature Photonics

Global Quantum Communications: Quantum Satellites And Other Things
Alexander Ling, Alexander Lohrmann, Aitor Villar, Rakshitha Chandrasekara, Zhongkan Tang
NUS

Fiber Optic Multiplexing Ultrasound Detection Of Rebar In Concrete
Xingwei Wang, Du Cong, Jones Owusu Twumasi, Xu Guo, Jingcheng Zhou, Qixiang Tang, Nan Wu, Tzuyang Yu
Univ of Massachusetts Lowell
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<th>Room Q: 4712</th>
<th>Photonic Applications of 2D Materials</th>
<th>Presider: Jaroslaw Sotor</th>
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<td>08:30–09:00</td>
<td>Oral 3-1Q-1 Invited</td>
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<tr>
<td>Nonlinear Optical Frequency Conversion In 2D Materials</td>
<td>Christiano De Matos</td>
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<td>MackGraphe - Mackenzie Presbyterian Univ</td>
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<th>Room R: 4713</th>
<th>Liquid Crystals and Their Applications</th>
<th>Presider: Yuanjin Zheng</th>
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<td>08:30–09:00</td>
<td>Oral 3-1R-1 Invited</td>
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<tr>
<td>Modelling Of Liquid Crystals At The Edge Of High Resolution Pixels</td>
<td>Sally Day, Yuan Tong, Zijun Nie, Mengyang Yang, F. Anibal Fernandez Unive College London</td>
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<th>Microwave Photonics I</th>
<th>Presider: Shilong Pan</th>
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<td>08:30–09:00</td>
<td>Oral 3-15-1 Invited</td>
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<tr>
<td>Signal Processing And Sensing Based On Microwave Photonics</td>
<td>Xiaoke Yi, Robert Minasian, Liwei Li, Suen Xin Chew, Linh Nguyen Univ of Sydney</td>
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<th>Room T: 4911</th>
<th>Nonlinear and Broadband Amplifiers I</th>
<th>Presider: Peter Andrekson</th>
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<td>Oral 3-1T-1 Invited</td>
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<tr>
<td>Latest Developments In Nonlinear And Broadband Amplifiers For Optical Fibre Communications And Related Applications.</td>
<td>Nikola Alic UCSD</td>
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**Ultrafast Fiber Lasers Mode-locked With 2D Nanomaterials**
Grzegorz Sobon
Wrocław Univ of Science and Technology

**Two-dimensional Material Based Saturable Absorbers For Ultrafast Lasers**
Meng Zhang
Beihang Univ

**Two-dimensional Layered Materials And Van Der Waals Heterostructures For Ultrafast Photonics**
Peiguang Yan
Shenzhen Univ

**RF Front-end Based On Microwave Photonics**
Dan Zhu, Wenjuan Chen, Zhiwen Chen, Tianhua Du, Zhenzhou Tang, Shilong Pan Nanjing Univ of Aeronautics and Astronautics

**Millimeter Wave Radar Connected By Radio Over Fiber For Foreign Objects And Debris Detection On Airport Surface**
Yonemoto Naruto
Electronic Navigation Research Institute, National Institute of Maritime, Port, and Aviation Technology

**Towards EDFA Replaceable Inline PSA**
Youichi Akasaka
Fujitsu Laboratories of America
### Room A: 4401
**Fiber-Based Technologies and Applications VIII**
**Presider: Xin Jiang**

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<tr>
<td>10:45–11:15</td>
<td>Oral 3-2A-1 Invited</td>
<td>Controlled Light-Matter Interaction In Gas-Filled Hollow-Core Photonic Crystal Fibres&lt;br&gt;Amir Abdolvand&lt;br&gt;Nanyang Technological Univ</td>
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<tr>
<td>11:15–11:45</td>
<td>Oral 3-2A-2 Invited</td>
<td>Control Of Pulsed Fiber Laser Operation Based On The Manipulation Of Low-dimensional Carbon Nanomaterials&lt;br&gt;Dong-il Yeom&lt;br&gt;Ajou Univ</td>
</tr>
<tr>
<td>11:45–12:15</td>
<td>Oral 3-2A-3 Invited</td>
<td>Specialty Optical Fiber And Assemblies Helping Industry Improve Performance&lt;br&gt;Devinder Saini&lt;br&gt;Fiberguide Industries</td>
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<td>12:15–12:30</td>
<td>Oral 3-2A-4</td>
<td>Tunable Mode Locked Erbium-doped Fiber Laser Based A Tilted</td>
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### Room B: 4403
**Fiber Laser and Amplifier Technology**
**Presider: Tomasz R. Wolinski**

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<tr>
<td>11:15–11:45</td>
<td>Oral 3-2B-2 Invited</td>
<td>Bismuth-doped All-fiber Lasers And Amplifiers: Recent Advances&lt;br&gt;Jayanta K Sahu, Naresh Kumar Thipparapu, Andrey A Ummnikov, Pranabesh Barua, Guo Chunyu, Saurabh Jain&lt;br&gt;Univ of Southampton</td>
</tr>
<tr>
<td>11:45–12:15</td>
<td>Oral 3-2B-3 Invited</td>
<td>Automatic Mode-locking In Fiber Laser By Polarization Tracking&lt;br&gt;Lilin Yi, Peixuan Li, Guoqing Pu, Weisheng Hu&lt;br&gt;Shanghai Jiao Tong Univ</td>
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### Room C: 4405
**Photonic Sensing and Applications II**
**Presider: Xingwei Wang**

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<td>Oral 3-2C-1 Invited</td>
<td>Smart Sensing &amp; Photonics&lt;br&gt;John Canning&lt;br&gt;Univ of Technology Sydney</td>
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<td>11:15–11:45</td>
<td>Oral 3-2C-2 Invited</td>
<td>Optical Fiber Sensors And Devices: Basic Physics, Technology And Some Recent Research Experiments&lt;br&gt;Partha RoyChaudhuri&lt;br&gt;Indian Institute of Technology Kharagpur</td>
</tr>
<tr>
<td>11:45–12:15</td>
<td>Oral 3-2C-3 Invited</td>
<td>Opto-electronic Single Cell Analysis&lt;br&gt;Changming Li&lt;br&gt;Southwest Univ</td>
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### Room D: 4501
**Microresonators & Nanolasers II**
**Presider: Patrice Genevet**

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<td>10:45–11:15</td>
<td>Oral 3-2D-1 Invited</td>
<td>Spatio-Temporal Dynamics Of Strong Coupling And Nanolasing In Nanoplasmnic Cavities&lt;br&gt;Ortwin Hess&lt;br&gt;Imperial College London</td>
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<td>11:15–11:30</td>
<td>Oral 3-2D-2</td>
<td>Chirality And Directional Emission Of A SiNx-based Microring Resonator With Position Controllable Scatters&lt;br&gt;Zhuohui Yang, Yanfeng Zhang, Bingzhi Zhang, Chenxuan Yin, Yujie Chen, Siyuan Yu&lt;br&gt;Sun Yat-sen Univ</td>
</tr>
<tr>
<td>11:30–11:45</td>
<td>Oral 3-2D-3</td>
<td>Optical Resonances From InAs Quantum Dots Embedded In Rolled-Up Tubular Microcavity&lt;br&gt;Shaoor Chai, Qi Wang, Xiankun Wang, Guoming Mao, Jiawei Cao, Xiaomin Ren&lt;br&gt;Beijing Univ of Posts and Telecommunications</td>
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<tr>
<td>11:45–12:00</td>
<td>Oral 3-2D-4</td>
<td>A Singular Value Decomposition-Based Positioning Algorithm For Indoor Visible Light Positioning</td>
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**Phonotics 2017**
**Thu, 03.08.2017**

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**Invited Oral 3**

**10:00–10:15**
**Oral 3-1R-6**

Optical Field Imaging With A Single Photodiode Exploiting Optical Phase Conjugation<br>Seungwoo Shin, KyeonReh Lee, YoonSeok Baek, YongKeun Park<br>Korea Advanced Institute of Science and Technology

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**Invited Oral 3**

**10:45–11:15**
**Oral 3-1F-1 Invited**

Wen, Manlai Ding, Liangjiong Zhou, Songshan Yu, Tonghe Xing, Yanlei Li, Bowei Gao, Yu Tian<br>Institute of Electronics Chinese Academy of Sciences

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**Invited Oral 3**

**11:15–11:45**
**Oral 3-1R-2 Invited**

François Ladouceur, Nigel Lovell<br>UNSW
Fiber Grating And Carbon Nanotube Saturable Absorber
Tianxing Wang, Chuanhang Zou, Zhijun Yan, Qionqian Huang, Chengbo Mou, Kaiming Zhou, Mohammed Alaraimi, Aleksey Rozhin, Lin Zhang
Shanghai Univ
12:30–12:45
Oral 3-2A-5
Passive Mode-locking Of A Fiber Laser Using A Graphene Oxide-based Saturable Absorber Based On Cladding-etched Optical Fiber
Seunghwan Ko, Junsu Lee, Joonhoi Koo, Ju Han Lee
Univ of Seoul

Room E: 4503
Novel Materials, Nanophotonics and Processes
Presider: David Thomson

10:45–11:00
Oral 3-2E-1
Cascaded Metasurface Structures
Yuanhui Wen, Yujie Chen, Jiangbo Zhu, Lidan Zhou, Lin Liu, Yanfeng Zhang, Siyuan Yu
Sun Yat-sen Univ

11:00–11:15
Oral 3-2E-2
Thulium-Doped Distributed Feedback And Distributed Bragg Reflectors Lasers On Silicon Chips
Nanxi Li, Purnawirman Purnawirman, Zhan Su, Emir Madgen, Patrick Callahan, Katia Shytykova, Ming Xin, Alfons Roocco, Christopher Baiocco, Erich Ippen, Franz Kaertner, Jonathan Bradley, Diedrik Vermeulen, Watts Michael

Room F: 4505
Infrared Emission and Waveguide Fabrication
Presider: Xianshu Luo

10:45–11:15
Oral 3-2F-1
Revisiting Planck's Law: Thermal Emission And Radiation Noise In Subwavelength Infrared Cavities
Joseph Talghader
Univ of Minnesota

11:15–11:30
Oral 3-2F-2
30 W, 2-3um All-fiber Supercontinuum Laser Source Based On Germania-core Fiber
Linyong Yang, Bin Zhang, Ke Yin, Jinnel Yao, Jing Hou, Yijun Zhao
National Univ of Defense Technology

Room G: 4301
Nano Optical Trapping
Presider: Aaron Ho

10:45–11:15
Oral 3-2G-1
Plasmonic Localization With Arrays Of Nanoparticles For Optically Trapped Biomedical Sensing
Donghyun Kim, Taehwang Son, Changhun Lee
Yonsei Univ

11:15–11:30
Oral 3-2G-2
Optical Pulling Nanoparticles With Nonparaxial Accelerating Beams
Guoxia Han, Zhangxiang Huang, Sha An, Tong Peng, Meirong Wang, Baoli Yao, Peng Zhang

Room H: 4201
High Field Physics and Other Topics in Nonlinear Optics
Presider: Xuan Wu

10:45–11:15
Oral 3-2H-1
Record Results In Parametric Amplification
Nikola Alic, Stojan Radic
UCSD

11:15–11:30
Oral 3-2H-2
CR-39 Track Detector For Multi-MeV Ion Spectroscopy
Tae Won Jeong, Prashant Kumar Singh, Cheonha Jeon, Hyun Ho Yun, Fatema Kaniz Kakolee, Sargis Ter-Avetsiyans
Institute for Basic Science

Room G: 4301
Nano Optical Trapping
Presider: Aaron Ho

10:45–11:15
Oral 3-2G-1
Plasmonic Localization With Arrays Of Nanoparticles For Optically Trapped Biomedical Sensing
Donghyun Kim, Taehwang Son, Changhun Lee
Yonsei Univ

11:15–11:30
Oral 3-2G-2
Optical Pulling Nanoparticles With Nonparaxial Accelerating Beams
Guoxia Han, Zhangxiang Huang, Sha An, Tong Peng, Meirong Wang, Baoli Yao, Peng Zhang

Mid-infrared Supercontinuum Generation In Chalcogenide Optical Fibers
Yasutake Ohishi, Tonglei Cheng, Kenshiro Nagasaka, Tong Hoang Tuan, Takenobu Suzuki
Toyota Technological Institute

Elliptical Double-Hole Photonic-Crystal Surface-Emitting Lasers
Masahiro Yoshida, Menaka De Zoya, Ranko Hatsuda, Yoshinori Tanaka, Kenji Ishizaki, Susumu Noda
Kyoto Univ
12:00–12:15
Oral 3-2D-6
Growth And Optical Characterization Of Erbium-doped Cerium Oxide As A Magnetically Purified Host Crystal
Tawara Takehiko, Inaba Tomohiro, Omi Hiroo, Yamamoto Hideki, Gotah Hideki
NTT Basic Research Laboratories
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<tr>
<th>Time</th>
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<th>Title</th>
<th>Authors</th>
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<tr>
<td>11:15–11:30</td>
<td>3-2E-3</td>
<td>Monolithic InN/InGaN/GaN Nanowire Array Guided Near-Infrared Detector On Silicon</td>
<td>Md Zunaid Baten, Arnab Hazari, Pallab Bhattacharya</td>
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<td>11:30–11:45</td>
<td>3-2F-3</td>
<td>High Power, Tunable, Mid-IR Generation With Singly Resonant Optical Parametric Oscillator</td>
<td>Mukesh Kumar Shukla, Ritwick Das National Institute of Science Education and Research</td>
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<td>11:45–12:00</td>
<td>3-2F-4</td>
<td>Towards High-power All-fiber 2-5 Um Supercontinuum Generation In Step-index Chalcogenide Fiber</td>
<td>Jinmei Yao, Bin Zhang, Ke Yin, Zhen Cai, Jing Hou National Univ of Defense Technology</td>
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<tr>
<td>12:00–12:15</td>
<td>3-2F-5</td>
<td>Two-photon Direct Laser Writing On Polymer Materials For Optical Waveguide Applications</td>
<td>Abhinay Mishra, Shufan Li, Young-Jin Kim Nanyang Technological Univ</td>
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<tr>
<td>12:15–12:30</td>
<td>3-2F-6</td>
<td>Buried Waveguides Written Deep Inside Silicon</td>
<td>Ahmet Turnali, Onur Tokel, Denizhan Koray Kesim, Ghaith Makey, Parviz Elahi, Fahit Omer Ilday Bilkent Univ</td>
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<td>11:30–11:45</td>
<td>3-2G-3</td>
<td>Angular Momentum Of Guided Modes In Ultrathin Optical Fiber: Evolution And Applications</td>
<td>Viet Giang Truong, Ali Maimaiti, Cindy Espronas, Sile Nic Chormaic, Le Kien Fam, Thomas Busch OIST Graduate Univ</td>
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<td>11:45–12:00</td>
<td>3-2G-4</td>
<td>Nano-particle Rotation Using A Gap-mode Plasmonic Field Of Nano-structure</td>
<td>Shutaro Ishida, Kota Sudo, Keiji Sasaki Hokkaido Univ</td>
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<td>12:00–12:15</td>
<td>3-2G-5</td>
<td>Photon- And Resistive Heating-Induced Thermophoresis For The Manipulation Of Colloidal Particles And Live Cells</td>
<td>Hengji Cong, Jiajie Chen, Zhiwen Kang, Hopui Ho The Chinese Univ of Hong Kong</td>
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<td>12:15–12:30</td>
<td>3-2G-6</td>
<td>Optical Trapping With Microring Resonator In A Self-Locked Scheme</td>
<td>Wai Lok Ho, Hengji Cong City Univ of Hong Kong</td>
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<td>12:30–12:45</td>
<td>3-2H-3</td>
<td>Laser Guided Corona Discharges And Its Applications</td>
<td>Tie-Jun Wang Shanghai Institute of Optics and Fine Mechanics, CAS</td>
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<td>12:45–12:00</td>
<td>3-2H-4</td>
<td>Benchmarking Strong-field Physics With Atomic And Molecular Hydrogen</td>
<td>Igor Litvinyuk Griffith Univ</td>
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<td>12:00–12:15</td>
<td>3-2H-5</td>
<td>Third Harmonic Generation At Sapphire Wafers With Different Cut Axis</td>
<td>Jiannan Jiao, Byung Jae Chun, Yi Gao, Young-Jin Kim Nanyang Technological Univ</td>
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<td>12:15–12:30</td>
<td>3-2H-6</td>
<td>Shot-to-Shot And Long-Term CEP-Stable Front-End For A Parallel Optical Waveform Synthesizer</td>
<td>Roland E. Mainz, Giulio Maria Rossi, Giovanni Cirmi, Yudong Yang, Oliver D. Muckle, Franz X. Kartner CFEL-DESY, UHH</td>
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<td><strong>Photonic Global Student Conference 2017 II</strong></td>
<td><strong>Optoelectronic Properties of 2D Materials</strong></td>
<td><strong>Transmission Technologies for Optical Network</strong></td>
<td><strong>Optical Access Systems</strong></td>
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<tr>
<td><strong>Presider: Wei Zhang</strong></td>
<td><strong>Presider: Cesare Soci</strong></td>
<td><strong>Presider: Takeshi Hoshida</strong></td>
<td><strong>Presider: Andreas Stöhr</strong></td>
</tr>
</tbody>
</table>

### Room I: 4812

#### 10:45–11:15

**Oral 3-2I-1**

*Invited*

- **Nature Photonics And You**
  - Rachel Won
  - Nature Photonics

#### 11:15–11:30

**Oral 3-2I-2**

- **A Compact Reference-free Holographic Image Sensor**
  - KyeoReh Lee, YongKeun Park
  - KAIST

#### 11:45–12:00

**Oral 3-2I-4**

- **Probabilistically Shaped Coded Modulation For Fiber-Optic Communication Systems**
  - Tobias Fehenberger
  - Technical Univ of Munich

#### 12:00–12:15

**Oral 3-2I-5**

- **A Chip-integrated Brillouin-based Optical Memory**
  - Moritz Merklein, Birgit Stiller, Benjamin Eggleton
  - CUDOS, The Univ of Sydney

#### 12:15–12:30

**Oral 3-2I-6**

- **3D Micro-fabrication Using Multimode Optical Fibers**
  - Edgar Morales, Christophe Moser, Demetri Psaltis
  - EPFL

### Room J: 4912

#### 10:45–11:15

**Oral 3-2J-1**

*Invited*

- **Optoelectronic Devices Based On Cavity-integrated 2D Materials**
  - Changhua Liu, Arka Majumdar
  - Univ of Washington

#### 11:15–11:45

**Oral 3-2J-2**

*Invited*

- **Cavity-free Lasers Through Graphene-based Active Random Metamaterials**
  - Andrea Marinis, F. Javier Garcia De Abajo
  - ICFP - The Institute of Photonic Sciences

#### 11:45–12:15

**Oral 3-2J-3**

*Invited*

- **Interlayer Coupling And Charge Transfer In 2D Semiconductors And Heterostructures**
  - Qihua Xiong
  - Nanyang Technological Univ

#### 12:15–12:30

**Oral 3-2J-4**

- **Tailoring Optical Properties Of Atomically-Thin W52 via Ion Irradiation**
  - Tang Yang
  - Shandong Univ

### Room K: 4203

#### 10:45–11:15

**Oral 3-2K-1**

*Invited*

- **Electro-photonics For High-capacity And Energy-efficient Optical Communication Networks**
  - Leimeng Zhuang, Arthur Lowery
  - Monash

#### 11:15–11:30

**Oral 3-2K-2**

- **First Investigation And Reduction Of Inter-WSS Crosstalk In Multiple-arrayed WSSs For Optical Node**
  - Hiroki Kawahara, Akio Sahara, Yoshikai Sone, Shingo Kawai, Mitsunori Fukutoku, Yutaka Miyamoto, Keita Yamaguchi, Kenya Suzuki, Toshikazu Hashimoto
  - NTT Network Innovation Laboratories

#### 11:30–11:45

**Oral 3-2K-3**

- **Dynamic Restoration Of Seed Photonics For High-efficiency Coherent Optical Networks**
  - Jun Sakaguchi, Sugang Xu, Masaki Shiraiwa, Takaya Miyazawa, Jun Sakaguchi, Sugang Xu, Masaki Shiraiwa, Takaya Miyazawa, Jun Sakaguchi, Sugang Xu, Masaki Shiraiwa, Takaya Miyazawa
  - King Fahd Univ of Petroleum and Minerals

### Room L: 4303

#### 10:45–11:15

**Oral 3-2L-1**

*Invited*

- **Vector Modulation Using EA Modulator**
  - Ukrit Mankong, Prainvest Mekbounwong, Keizo Inagaki, Kanno Atsushi, Kawanishi Tetsuya
  - Chiang Mai Univ

#### 11:15–11:30

**Oral 3-2L-2**

- **Four-Wave Mixing Effect Reduction In O-band Multi-Wavelength NG-EPON System Based On Chipped DML**
  - Xin Miao, Meihua Bi, Hao He, Weisheng Hu
  - Shanghai Jiao Tong Univ

#### 11:30–11:45

**Oral 3-2L-3**

- **Optical Wireless Communication at 100 Gb/s Using L-band Quantum-dash Laser**
  - Muhammad Talal Ali Khan, Mohamed Adel Shemis, Amr Mohamad Ragheb, Maged Abdulllah Esmail, Habb Fahallath, Saleh Alshebeili, Mohammed Zahed Mustafa Khan
  - King Fahd Univ of Petroleum and Minerals

#### 11:45–12:00

**Oral 3-2L-4**

- **Bandwidth Enhancement Of Wireless Optical Communication Link Using A Near-Infrared Laser Over Turbid Underwater Channel**
  - It Ee Lee, Yujian Guo, Tien Khee Ng, Ki-Hong Park, Mohamed-Slim Alouini, Boon S. Ooi
  - Multimedia Univ

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Arbitrary Period Control And Noise Mitigation In Periodic Waveforms Through Coherent Energy Redistribution
Jose Azana, Reza Maram, Luis Romero Cortes
INRS-EMT

Next Generation Millimeter-Wave Wireless Network In Dense User Environment
Hiroshi Murata
Osaka Univ

Room M: 4611
High Power Fiber Laser III
Presider: Atsushi A Yamaguchi

Oral 3:2M-1
10:45–11:15
Invited

Asymmetric Large Mode Area Fibres
Seongwoo Yoo
NTU

11:15–11:45
Oral 3:2M-2
Invited

A Review Of Metal-Coated Active Optical Fibres
Nikita Simakov, Joe Daniel, Alexander Hemming, John Haub, Andrew W. Clarkson
Defence Science and Technology Group

11:45–12:00
Oral 3:2M-3

Coherent Beam Combination Of High-average-power Ultrafast Fiber Lasers
Pu Zhou, Rongtuo Su, Pengfei Ma, Hailong Yu, Zhixin Zhang, Yanxing Ma, Xiaolin Wang
National Univ of Defense Technology,

12:00–12:15
Oral 3:2M-4

Nonlinear Processes When Amplifying 2053 nm, MHz-linewidth Pulses In Single-mode Fiber
Alex Sincore, Nathan Bodnar, Joshua Bradford, Ali Abdulfattah,

Room N: 4612
Women In Photonics II
Presider: Huilin Shao

Oral 3:2N-1
10:45–11:05
Invited

Life As A Female Research Fellow In Photonics
Lidia Galdino
Univ College London

11:05–11:25
Oral 3:2N-2
Invited

A Life Across Science: My Marriage With Photonics
Alessia Giroletti
Bristol Univ

11:25–11:45
Oral 3:2N-3
Invited

Room O: 4613
Nitrides, Other Widegap Semiconductors I
Presider: Hilmi Volkan

Oral 3:2O-1
10:45–11:00

Control Beta-phase Stability Of Sn-doped Ga2O3 Thin Films For Electrical Application
Xiaolong Zhao, Cui Wei, Zhenping Wu, Linghong Li, Weihua Tang
Beijing Univ of posts and telecommunications

11:00–11:15
Oral 3:2O-2

Free-standing undoped acceptor-rich ZnO microtubes and their unique optical properties as ultrathin-walled microcavites
Yinzhou Yan, Qiang Wang, Yijian Jiang
Beijing Univ of Technology

11:15–11:45
Oral 3:2O-3
Invited

Room P: 4711
Lab-in-a-Fiber Technologies I
Presider: John Canning

Oral 3:2P-1
10:45–11:15
Invited

The Optical Fiber Tip As Promising Platform For Advanced Lab-on-Fiber Devices
Marco Consales, Andrea Cusano
Univ of Sannio

11:15–11:45
Oral 3:2P-2
Invited

Femtosecond Laser Modification Of Optical Fibres For Lab-on-tip And Lab-around-fibre Devices
Kyriacos Kalli, Andreas Ioannou, Antreas Theodosiou, Christophe Caucheteur
Univ of Cyprus

10:45–11:15
Oral 3:2M-1
Invited

Asymmetric Large Mode Area Fibres
Seongwoo Yoo
NTU

11:15–11:45
Oral 3:2M-2
Invited

A Review Of Metal-Coated Active Optical Fibres
Nikita Simakov, Joe Daniel, Alexander Hemming, John Haub, Andrew W. Clarkson
Defence Science and Technology Group

11:45–12:00
Oral 3:2M-3

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National Univ of Defense Technology,

12:00–12:15
Oral 3:2M-4

Nonlinear Processes When Amplifying 2053 nm, MHz-linewidth Pulses In Single-mode Fiber
Alex Sincore, Nathan Bodnar, Joshua Bradford, Ali Abdulfattah,
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<td>Imaging The Dynamics Of Photoexcited Electrons In A Type II Semiconductor Heterostructure</td>
<td>Microstructured Liquid Crystal Photoalignment For Photonic Applications</td>
<td>Performance Evaluation Of Optical Beamforming Based Wideband Array Antenna</td>
<td>Broadband Amplifiers For Communications</td>
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<td>Keshav Dani</td>
<td>Yan-qing Lu, Wei Hu Nanjing Univ</td>
<td>Shilong Pan, Xingwei Ye Nanjing Univ of Aeronautics and Astronautics</td>
<td>David DiGiovanni OFS Fitel</td>
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<td>Lawrence Shah, Martin Richardson CREOL, UCF</td>
<td>Hiroki Tanaka, Kodai Iijima, Ryota Sawada, Naoto Sugiyama, Yasuaki Kiyota, Fumihiko Kannari Keio Univ</td>
<td>Yuan Yao Lin, Chao-Kuei Lee National Sun Yat-sen Univ</td>
<td>Nick Doran</td>
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<td>Optical Properties Of Topological Insulators And Their Applications For Pulsed Solid-State Lasers</td>
<td>Independently Detect The Spiral Phase Of Cylindrical Vector Vortex Beams</td>
<td>Optical Fiber Sensors And Microwave Photonics, A Good Mix</td>
<td>High-Capacity Transmission Systems Using Multi-Core Fibers</td>
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<td>Yuan-Yao Lin, Chao-Kuei Lee National Sun Yat-sen Univ</td>
<td>Yanliang He, Shuqing Chen, Yao Cai, Mingyang Su, Xiaohe Zhang, Ying Li Shenzhen Univ</td>
<td>Salvador Sales ITEAM, Universitat Politècnica de Valencia</td>
<td>Ruben Luis, Rademacher Georg, Werner Klaus, Awaji Yoshinari, Naoya Wada NICT</td>
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<td>Rogue Waves In Fiber Lasers By 2D</td>
<td>Microwave Photonic Filter With Variable Selectivity And Shape By SBS And Dispersion-induced Phase</td>
<td>Mitigating RIN-Penalty To Enhance The Transmission Performance In</td>
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Materials-based Photonic Devices
Zhi Chao Luo, Meng Liu, Ai Ping Luo, Wen Cheng Xu
South China Normal Univ
12:15–12:30
Oral 3-2Q-4
Vector Solitons In Fiber Lasers Mode Locked By Black Phosphorus Nanoflakes
Yufeng Song, Si Chen, Yanqi Ge, Zhiming Liang, Luming Zhao, Han Zhang, Dingyuan Tang
Shenzhen Univ
12:30–12:45
Oral 3-2Q-5
A Femtosecond Pulse Fiber Laser At 1.91μm Using MoSe2/PVA-based Evanescent Field Interaction
Jinho Lee
Univ of Seoul
12:15–12:30
Oral 3-2R-6
Polychromatic Focusing Properties Of Rudin-Shapiro Zone Plates
Tian Xia, Kai Niu, Shubu Cheng, Jianwei Yan, Shaohua Tao
Central South Univ

Room A: 4401
Fiber-Based Technologies and Applications IX
Presider: Minghong Yang

14:00–14:30
Oral 3-3A-1 Invited
Research On Phase-extracted Optical Reflectometry For Distributed Vibration Sensing
Zuyuan He, Xinyu Fan, Qingwen Liu
Shanghai Jiao Tong Univ
14:30–15:00
Oral 3-3A-2 Invited
Recent Developments In Periodically Poled Silica Fibre Technology

Room B: 4403
Specialty Fiber I
Presider: Liang Wang

14:00–14:30
Oral 3-3B-1 Invited
Nanoparticles-Doped Optofluidic Photonic Liquid Crystal Fibers For Enhanced Efficiency Of Electric Field Tunability
Tomasz R. Wolinski, Agata Siarkowska, Milosz Chychlowski, Daniel Budaszewski, Sławomir Ertman, Bartosz Bartosewicz, Bartłomiej Jankiewicz, Roman Dobrowski
Warsaw Univ. of Technology

Room C: 4405
Integrated Optic Sensors
Presider: Zhijun Yan

14:00–14:30
Ultra-low Loss Silica Waveguide Ring Resonators For Resonant Micro-Optic Gyroscopes
Huilian Ma, Jianjie Zhang, Hanzhao Li, Zhonghe Jin
Shanghai Jiao Tong Univ
14:30–14:45
Oral 3-3C-2
Photonic Integrated Circuit Based Imaging System
Katherine Badham, Richard Kendrick, Samuel Thurman,

Room D: 4501
Perovskite Materials and Devices III
Presider: Handong Sun

14:00–14:15
Oral 3-3D-1
Overcoming Hysteresis By Understanding The Formation Of Interface Barriers - Towards Engineering Environmentally Stable And Efficient Perovskite Cells And Modules
Christoph Josef Brabec
Friedrich Alexander Univ Erlangen-Nurnberg
14:15–14:45
Oral 3-3D-2 Invited
Halide Perovskite Quantum Dots:
Fabrication Of Double-Helix Chiral Long-Period Grating In CO2 Laser Polarization-Maintain Fiber By Chengbo Mou, Feng Zou, Yingwen Wang, Hong Luo, Zhou Meng, National Univ of Defense Technology

Bragg Grating In Novel Two-core Based Multi-Core Fiber Design By Changle Mou, Long-Period Grating Measurement Of Pressure And Temperature Characteristic By Xin Zhao, Handong Sun, Nanyang Technological Univ

Accurate Measurement Of Refractive Index Sensor Based On Hybrid-Tamm Plasmon-Polariton And Cavity Mode By Samir Kumar, Mukesh Kumar, Partha Sona Maji, Ritwick Das, National Institute of Science Education and Research

Formation Of Epitaxial Thin Films Of Lead Halide Perovskite Semiconductor By Kimura Kohei, Matsushita Tomonori, Kondo Takanori, Univ of Tokyo

Hetero-Structure On Hybrid Perovskite Single Crystals By Doi Yumizaki, Kefei Su, National Institute of Science Education and Research

Compact Belloulli/phonon Fiber Laser For Acoustic Fiber Sensing By Mc Oren, Chenhui Wong, Jufeng Deng, National Univ of Defense Technology

Accurate Measurement Of Perovskite Solar Cells Photoelectric Conversion Efficiency By Haifeng Meng, Limin Xiong, Junchao Zhang, Yingwei He, Bifeng Zhang, National Institute of Metrology

Potential Alternative Materials For Display Applications By Haizheng Zhong, Beijing Institute of Technology

Accurate Measurement Of Perovskite Solar Cells Photoelectric Conversion Efficiency By Haifeng Meng, Limin Xiong, Junchao Zhang, Yingwei He, Bifeng Zhang, National Institute of Metrology

Formation Of Epitaxial Thin Films Of Lead Halide Perovskite By Kimura Kohei, Matsushita Tomonori, Kondo Takanori, Univ of Tokyo

Temperature Characteristic Of Wearable Photodetector Based On Cds Thin Film By Sano Yosuke, Saito Shun, Natl Inst of Sci Ed & Res

Formation Of Epitaxial Thin Films Of Lead Halide Perovskite By Kimura Kohei, Matsushita Tomonori, Kondo Takanori, Univ of Tokyo
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<th>Room G: 4301</th>
<th>Room H: 4201</th>
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<td><strong>Silicon Photonics Systems and Applications I</strong>&lt;br&gt;Presider: David Thomson</td>
<td><strong>Infrared Applications and Commercialization</strong>&lt;br&gt;Presider: Mo Li</td>
<td><strong>Applications of New Optical Fibers in Communication and Sensing I</strong>&lt;br&gt;Presider: Ansion Xiong</td>
<td><strong>Nonlinearities in Integrated Photonics and Related Topics</strong>&lt;br&gt;Presider: Yingying Wang</td>
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<td>14:00–14:30 Oral 3-3F-1 Invited</td>
<td>14:00–14:20 Oral 3-3G-1 Invited</td>
<td>14:00–14:30 Oral 3-3H-1 Invited</td>
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<tr>
<td><strong>Silicon Photonics For High-speed Data Communications And Sensing</strong>&lt;br&gt;Chi Xiong, Douglas Gill, Jonathan Proesel, Jason Orcutt, Yves Martin, Marwan Khater, Eric Zhang, Wilfried Haensch, William Green IBM</td>
<td><strong>Electro-Optic Silicon Dual-Ring Assisted Mach-Zehnder Interferometer Switches</strong>&lt;br&gt;Linjie Zhou, Lu Liangjun, Guo Zhanzhi, Jianping Chen Shanghai Jiao Tong Univ</td>
<td><strong>Fabrication And Characteristics Of Helical Long-Period Gratings Written In Few Mode Fibers</strong>&lt;br&gt;Yunqi Liu Shanghai Univ</td>
<td><strong>Quantum Interference Control Of Injected Photocurrents Based On Carrier Envelope Phase</strong>&lt;br&gt;Cundiff Steven Univ of Michigan</td>
</tr>
<tr>
<td><strong>High Density 42 X 28 Gbs Silicon Photonic Transceiver Chip With Super-dense 84-Channel Coupling Solution</strong>&lt;br&gt;Zhen Dong Huawei Company</td>
<td><strong>Silicon Photonics For Near- And Mid-infrared Sensing Applications</strong>&lt;br&gt;Roel Boets Ghent Univ - imec</td>
<td><strong>Polymer Optical Fibre Bragg Grating Sensors For Medical Applications</strong>&lt;br&gt;Hwa-Yaw Tam The Hong Kong Polytechnic Univ</td>
<td><strong>Brightness Enhancement Of Continuous-wave Beams Using A Diamond Raman Laser</strong>&lt;br&gt;Zhenyu Bai, Robert Williams, Hadiya Jasbeer, Soumya Sarang, Aaron McKay, Richard Mildren Macquarie Univ</td>
</tr>
<tr>
<td>14:45–15:00 Oral 3-3E-3</td>
<td>15:00–15:15 Oral 3-3F-3</td>
<td>14:40–15:00 Oral 3-3G-3 Invited</td>
<td>14:45–15:00 Oral 3-3H-3</td>
</tr>
<tr>
<td><strong>An Energy Efficient 1-Gb/s On-Chip Opto-electronic Transceiver Link Using Monolithically-Integrated CMOS + III-V LEDs</strong>&lt;br&gt;Arya Balachandran, Li Shuian Peh, Chirn Chye Boon NTU</td>
<td><strong>Phase Change Metamaterial Pollution Sensor</strong>&lt;br&gt;Weiling Dong, Yimei Qiu, Agnieszka Banas, Krzysztof Banas, Tun Cao, Robert Simpson Singapore Univ of Technology and Design</td>
<td><strong>Microstructured Fibers And Their Applications</strong>&lt;br&gt;Guanshi Qin Jilin Univ</td>
<td><strong>Electro-optically Induced Nonlinear Phase Shift In RTP Crystal By Cascaded Second-order Nonlinearity</strong>&lt;br&gt;Ruma Deb Nath, Susheel Kumar Beda, Digvijay Sing Hada, Ardhendu Saha National Institute of Technology Agartala</td>
</tr>
<tr>
<td>15:00–15:30 Oral 3-3F-4</td>
<td>15:15–15:30 Oral 3-3F-3</td>
<td>15:15–15:30 Oral 3-3F-4</td>
<td>15:00–15:15 Oral 3-3H-4</td>
</tr>
<tr>
<td><strong>Silicon Photonics Transceivers For High-speed Data Communication</strong>&lt;br&gt;Gianlorenzo Massini, Scott Denton, Subal Sahni, Attila Mekis, Thierry Pinguet, Joey Balardeta, Peter De Dobbeleere Luxtera</td>
<td><strong>TO-packaged, Multi-junction GaAs Laser Power Converter With Output Electric Power Over 1W</strong>&lt;br&gt;Yanwen Ding, Qi Li, Yunqing Lu, Jin Wang Nanjing Univ of Posts and Telecommunications</td>
<td><strong>Fluorotellurite Microstructured Fibers And Their Applications</strong>&lt;br&gt;Guanshi Qin Jilin Univ</td>
<td><strong>Lasing Properties Of Ce:LiCaAlF6 Single Crystal On Effects Of The Distribution Of Ce Ion</strong>&lt;br&gt;Miho Tanaka, Shingo Ono, Marilou Raduban, Pham Minh, Takaya Taniguchi, Kohei Yamanoi, Nobuhiro Sarukura, Taka fumi Hirata Nagoya Institute of Technology</td>
</tr>
<tr>
<td><strong>Shape Measurement By Cascade Link Multi-wavelength Digital Holography Using Optical Frequency Comb Referenced Synthesizer</strong>&lt;br&gt;Yamagiwa Masatomo, Ogawa</td>
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</tr>
</tbody>
</table>
Silicon Integrated Optical Devices
Ke Wong, Yang Wang, Shitao Gao, Ampalavanapillai Nirmalathas, Christina Lim, Kamal Alameh, Hongtao Li, Efstratios Skafidas
Royal Melbourne Institute of Technology

The Chinese Gold Nanocrystals Switching In Polyaniline
Takayuki, Kawaihito Yusuke, Torovato Clement, Minamikawa Takeo, Yamamoto Hirotsugu, Yasui Takeshi
Tokushima Univ

15:45–16:00
Oral 3-3F-6
Integrated Photonics Based On Chalcogenide Glass-on-Graphene
Tian Gu
Massachusetts Institute of Technology

Room I: 4812
Photons Global Student Conference 2017 III
Presider: Aaron Muller

14:00–14:45
Oral 3-3I-1
Invited
The Continuing Story Of Vertical Cavity Surface Emitting Lasers
Kent D. Choquette
Univ of Illinois

14:45–15:00
Oral 3-3I-2
Novel SERS Substrates For Chemical And Biological Sensing
Yashna Sharma, Anuj Dhawan
IIT Delhi

15:00–15:15
Oral 3-3I-3
Optofluidic Sensing With A Side-channel Photonic Crystal Fiber Based Sagnac Interferometer
Nan Zhang, Kaiwei Li, Georges Humbert, Ping Shum, Zhifang Wu, Ting Zhang, Ying Cui, Quyen Dinh, Jean-Louis Auguste, Lei Wei
Nanyang Technological Univ

15:15–15:30
Oral 3-3I-4
Active Electrochemical Plasmon Switching In Polyaniiline-coated Gold Nanocrystals
Wenzheng Lu, Jianfang Wang
The Chinese Univ of Hong Kong

Room J: 4912
Plasmonics and Metamaterials V
Presider: Daohua Zhang

14:00–14:30
Oral 3-3I-1
Invited
Revisit Metamaterials And Metasurfaces From The Perspective Of Information Science
Tiejun Cui, Shuo Liu
Southeast Univ

14:30–15:00
Oral 3-3I-2
Invited
Electronically Tunable Conducting Oxide Metasurfaces For Beam Steering And Perfect Absorption
Howard Lee
Baylor Univ and TexasA&M

15:00–15:15
Oral 3-3I-3
Tri-layer Anisotropic Metamaterial For Unidirectional Circular Polarizer
Ying-hua Wang, Zheng-gao Dong, Shuang-Ying Lei
Southeast Univ

15:15–15:30
Oral 3-3I-4
Dual-functional Metamaterial For Reflection And Transmission Polarization Conversion

Room K: 4203
Coding and Modulation Technique
Presider: Binh Le

14:00–14:30
Oral 3-3K-1
Invited
Optical Transmission Systems
Ivan & Djordjevic
Univ of Arizona

14:30–14:45
Oral 3-3K-2
Irregular QC-LDPC Based Multi-level Coded Modulation Scheme For The Next Generation Optical Communication Systems
Dongdong Wang, Liqian Wang, Xue Chen, Ju Chen, Zhirong Wang, Aimei Fei, Huitao Wang, Qi Zhang
Beijing Univ of Posts and Telecommunications

14:45–15:15
Oral 3-3K-3
Invited
High-capacity Submarine Transmission Based On Optimized Constellation
Fatih Yaman
NEC Laboratories

15:15–15:30
Oral 3-3K-4
Efficient IFFT Implementation In An ACO-OFDM Transmitter
Qibing Wang, Binhuang Song

Room L: 4303
Novel Technologies for Free Space Optic Communications
Presider: Jian Chen

14:00–14:30
Oral 3-3L-1
Invited
Inter-cell Interference Mitigation In Multi-cell VLC Systems Using Angle Diversity Receivers
Wen-De Zhong
Nanyang Technological University

14:30–15:00
Oral 3-3L-2
Invited
High Throughput Cascaded Aperture Optical Receiver (CAO-Rx) For Eye-safe Indoor Optical Wireless Communication
Zizheng Cao, Langfei Shen, Yuqing Jiao, Yanlu Li, Ye Tian, Ton Koonen
Eindhoven Univ of Technology

15:00–15:30
Oral 3-3L-3
Invited
Channel-independent Signal Processing For High-speed VLC Systems
Lian-Kuan Chen, Yong Hong
The Chinese Univ of Hong Kong

15:30–15:45
Oral 3-3L-4

Photonics 2017

Room I: 4812
Photons Global Student Conference 2017 III
Presider: Aaron Muller

Room J: 4912
Plasmonics and Metamaterials V
Presider: Daohua Zhang

Room K: 4203
Coding and Modulation Technique
Presider: Binh Le

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Oral 3-3I-3
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The Chinese Univ of Hong Kong

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14:30–15:00
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Oral 3-3I-4
Dual-functional Metamaterial For Reflection And Transmission Polarization Conversion

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Invited
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Univ of Arizona

14:30–14:45
Oral 3-3K-2
Irregular QC-LDPC Based Multi-level Coded Modulation Scheme For The Next Generation Optical Communication Systems
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Oral 3-3K-3
Invited
High-capacity Submarine Transmission Based On Optimized Constellation
Fatih Yaman
NEC Laboratories

15:15–15:30
Oral 3-3K-4
Efficient IFFT Implementation In An ACO-OFDM Transmitter
Qibing Wang, Binhuang Song

14:00–14:30
Oral 3-3L-1
Invited
Inter-cell Interference Mitigation In Multi-cell VLC Systems Using Angle Diversity Receivers
Wen-De Zhong
Nanyang Technological University

14:30–15:00
Oral 3-3L-2
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High Throughput Cascaded Aperture Optical Receiver (CAO-Rx) For Eye-safe Indoor Optical Wireless Communication
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Eindhoven Univ of Technology

15:00–15:30
Oral 3-3L-3
Invited
Channel-independent Signal Processing For High-speed VLC Systems
Lian-Kuan Chen, Yong Hong
The Chinese Univ of Hong Kong

15:30–15:45
Oral 3-3L-4
### Room M: 4611
**Novel Laser Sources**
**Presider:** Set Sze

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>14:00–14:15</td>
<td>Oral 3-3M-1</td>
<td>Single Mode Excitation Ring Resonator Dye Laser Based On Simplified Hollow-core Microstructured Optical Fiber</td>
<td>Jie Yu, YanGe Liu, Zhi Wang, MingMing Luo, Guang Yang, HongWei Zhang, XiaoHui Zhang Nankai Univ</td>
</tr>
<tr>
<td>14:15–14:30</td>
<td>Oral 3-3M-2</td>
<td>Multi-color Tunable Laser Source Based On Fiber Optical Parametric Oscillator</td>
<td>Kangwen Yang, Jieshi Jiang, Qiang Hao, Heping Zeng</td>
</tr>
<tr>
<td>14:30–14:45</td>
<td>Oral 3-3M-3</td>
<td>Sodium Guide Star Laser Pulsed At Larmor Frequency</td>
<td>Yan Feng</td>
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<tr>
<td>15:00–15:15</td>
<td>Oral 3-3M-3</td>
<td>Unversality Of Our Semiconductor-based Gigahertz-repetition Few-picosecond Clock-pulse Source And Its Precise Optical-Frequency-comb Spectrum, For Use In Broadband Telecom And Molecule-sensor Systems</td>
<td>Yoshiyasu Ueno</td>
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### Room N: 4612
**Optical Switching Systems and Related Technologies I**
**Presider:** Gangxiang Shen

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<th>Topic</th>
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<tr>
<td>14:00–14:30</td>
<td>Oral 3-3N-1</td>
<td>Invited Wavelength Selective Switches For SDM Network</td>
<td>Kenya Suzuki NTT Device Technology Laboratories</td>
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<tr>
<td>14:30–15:00</td>
<td>Oral 3-3N-2</td>
<td>Invited High Port Count Hybrid Optical Switches For Data Centre Networks</td>
<td>Ian White Univ of Cambridge</td>
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### Room O: 4613
**Nitrides, Other Widegap Semiconductors II**
**Presider:** Hilmi Volkan

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<tr>
<th>Time</th>
<th>Session</th>
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<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>14:00–14:30</td>
<td>Oral 3-30-1</td>
<td>Invited The Green-gap Problem And Efficiency Droop In Nitrides</td>
<td>Colin Humphreys Univ of Cambridge</td>
</tr>
<tr>
<td>14:30–15:00</td>
<td>Oral 3-30-2</td>
<td>Invited Next Generation III-Nitride Materials And Research-From Photonics To New Applications</td>
<td>Nelson Tansu Lehigh Univ</td>
</tr>
<tr>
<td>15:00–15:30</td>
<td>Oral 3-3N-3</td>
<td>Invited Universality Of Our Semiconductor-based Gigahertz-repetition Few-picosecond Clock-pulse Source And Its Precise Optical-Frequency-comb Spectrum, For Use In Broadband Telecom And Molecule-sensor Systems</td>
<td>Yoshiyasu Ueno</td>
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### Room P: 4711
**Lab-in-a-Fiber Technologies II**
**Presider:** Kyriacos Kalli

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<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Topic</th>
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<tr>
<td>14:00–14:30</td>
<td>Oral 3-3P-1</td>
<td>Invited Photonic Crystal Fibers For Label-free DNA Detection</td>
<td>Annamaria Cucinotta Univ of Parma</td>
</tr>
<tr>
<td>14:30–15:00</td>
<td>Oral 3-3P-2</td>
<td>Invited Plasmonic Tilted Fiber Grating Sensors</td>
<td>Tuan Guo Jinan Univ</td>
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<tr>
<td>15:00–15:30</td>
<td>Oral 3-30-3</td>
<td>Invited LEDs And Harmony, Were Technology Meets Biology</td>
<td>John Rooymans Brilliance Technologies and Gemex Consultancy</td>
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</table>
14:45--15:00  Oral 3-3M-4  
Ceramic Yb:LuAG Thin Disk Lasers With High Efficiency And High Power Operation  
Peng Yuan Han, James Cheng, Kin Seng Lai, Ernest Lau, Ang Seok Khim  
DSO National Laboratories  

15:30--15:45  Oral 3-3N-4  
Demonstration Of SDN-controlled Elastic Light-tree Provisioning Based On Cascaded Spectrum Multicast  
Dan Wu, Juhan Li, Paikun Zhu, Zhangyuan Chen, Yongqi He  
Peking Univ  

15:00--15:15  Oral 3-3M-5  
Self-injection Locked InAs/InP Quantum-dot Laser For High Capacity Optical Communication System  
Mohamed Shemis, Muhammad Talal Ali Khan, Amr Ragheb, Habib Fathallah, Saleh Alshebeili, Mohammed Khan  
King Fahd Univ of Petroleum and Minerals, Saudi Arabia  

15:15--15:30  Oral 3-3M-6  
Characteristics Of High-Power Diode Lasers By Spectral Beam Combining  
Fangyuan Sun, Cunzhu Tong, Shili Shu, Guanyu Hou, Lijie Wang, Jun Zhang, Hangyu Peng, Lijun Wang  
Changchun Institute of Optics, Fine Mechanics and Physics, CAS  

15:30--16:00  Oral 3-3M-7  
Invited  
Thin Disk Laser - History, Actual Power Scaling Technologies And Prospects  
Jochen Speiser  
DLR-TP  

Room Q: 4712  Room R: 4713  Room S: 4811  Room T: 4911  

Room Q: 4712  
LiDAR: Its Application in Advanced Driver Assistance System I  
Presider: Huiyun Li  

Room R: 4713  
3D Display Technologies I  
Presider: Haowen Liang  

Room S: 4811  
Microwave Photonics III  
Presider: Yifei Li  

Room T: 4911  
Structured Light for Material Processing and Telecommunications  
Presider: Hanne Ludvigsen  

14:00--14:25  Oral 3-3Q-1  
Invited  
VCSEL Photonics For Non-mechanical LiDAR  

14:00--14:30  Oral 3-3R-1  
Invited  
Light-field VR Head-mounted Display Systems Based On OLED  

14:00--14:30  Oral 3-3S-1  
Invited  
Advanced Photonics Technology For 1-THz Wireless  

14:00--14:30  Oral 3-3T-1  
Invited  
Free-Space Communication Links Incorporating Orbital Angular
**Photonics 2017**

**Room A: 4401**
Fiber-Based Technologies and Applications X  
Presider: Morten Ibsen

14:50–15:00  
Oral 3-3Q-3  
Invited

Optical Beam Steering Using MEMS Grating And Grating Arrays  
Guangya Zhou, Youmin Wang, Ming C. Wu  
National Univ of Singapore

15:15–15:30  
Oral 3-3R-4  
Invited

Current Status Of The LiDAR For Autonomous Driving  
Kai Sun  
Hesai Photonics Technology

**Room B: 4403**
Specialty Fiber II  
Presider: Yongmin Jung

14:45–15:15  
Oral 3-3R-3  
Invited

Investigation Of Optical Image Splitter Design For Flat Autostereoscopic Displays  
Roland Bartmann, Hannes Kaeding, Mathias Kuhlmeier  
Fraunhofer Heinrich Hertz Institute

15:15–15:30  
Oral 3-3R-4  
Invited

Head Tracked Multiview Display With Minimum Resolution Loss  
Song Guo, Zhenfeng Zhuang, Lei Zhang, Xiangyu Zhang, Philip Surman, Yuanjin Zheng, Xiaowei Sun  
Nanyang Technological Univ

**Room C: 4405**
Fiber Acoustic Sensors  
Presider: Ping Lu

15:00–15:15  
Oral 3-3S-3  
Invited

High-resolution Optical Vector Analysis Based On Microwave Photonic  
Min Xue, Shilong Pan  
Nanjing Univ of Aeronautics and Astronautics

15:30–16:00  
Oral 3-3S-4  
Invited

3D Hybrid Silicon Photonics For Integrated Microwave Photonics  
Jonathan Klamkin, Bowen Song, Brandon Isaac  
Univ of California Santa Barbara

**Room D: 4501**
Perovskite Materials and Devices IV  
Presider: Haizheng Zhong

14:30–15:00  
Oral 3-3T-2  
Invited

Nanostructured Optical Elements For Manipulation Of Orbital Angular Momentum  
Martynas Beresna  
Univ of Southampton

15:00–15:30  
Oral 3-3T-3  
Invited

Wavelength-versatile Optical Vortex Source Toward Materials Processing  
Takahis Oomatsu  
Chiba Univ

15:30–16:00  
Oral 3-3T-4  
Invited

Scalability Of All-fiber Fused Mode Selective Coupler For Exciting Higher Order OAM States  
Balaji Srinivasan, Shankar Pidishety, Srinivas Pachava, Gilberto Brambilla  
IIT Madras

**Programme**

**Room A: 4401**
Fiber-Based Technologies and Applications X  
Presider: Morten Ibsen

16:15–16:45  
Oral 3-4A-1  
Invited

Optical Microfiber Mode Interferometer Biosensors  
Bai-Ou Guan

**Room B: 4403**
Specialty Fiber II  
Presider: Yongmin Jung

16:15–16:45  
Oral 3-4B-1  
Invited

All-fiber Devices For Mode Control In Few Mode Fibers

**Room C: 4405**
Fiber Acoustic Sensors  
Presider: Ping Lu

16:15–16:45  
Oral 3-4C-1  
Invited

High Precision Acoustic Signal Interrogation Technology  
Ping Lu, Hao Liao, Deming Liu

**Room D: 4501**
Perovskite Materials and Devices IV  
Presider: Haizheng Zhong

16:15–16:30  
Oral 3-4D-1  
Invited

Perovskite Light-Emitting Diodes Based On Solution-Processed, Self-Organized Multiple Quantum Wells
16:45–17:15
Oral 3-4A-2
Invited

Byoung Yoon Kim
KAIST

Dissipative Solitons With Extreme Spikes
Nail Akhmediev, Vonkeun Chang, Peter Vouzas, Jose Sato-Crespo
The Australian National Univ

17:00–17:15
Oral 3-4B-2
Enhanced Ultraviolet Photoluminescence Of Gd\textsuperscript{III} In Silica Glass
Jing He, Yun Wang, Norberto Chiodini, Sebastian Steigenberger, Pranabesh Barua, Martynas Beresna, Gilberto Brambilla
Univ of Southampton

17:15–17:30
Oral 3-4B-4
Modulational Instability In Asymmetric Dual Core Optical Fiber
Aparna A Noir, Porsezian K, Jayaraju M
Univ of Kerala

17:30–17:45
Oral 3-4B-5
Even/Odd Mode-Selective Double Frequency-Spaced Optical Comb Generation By Quad-Parallel Phase Modulator
Takahide Sakamoto, Akito Chiba
National Institute of Information and Communications Technology

17:45–18:00
Oral 3-4B-6
Wavelength Shifted Third Harmonic Generation In An Exposed-core Microstructured Optical Fiber
Stephen Warren-Smith, Jingxuan Wei, Mario Chemnitz, Roman Kostecki, Heike Ebendorff-Heidepriem, Tanya Monro, Markus Schmidt
Leibniz Institute of Photonic Technology

16:45–17:15
Oral 3-4C-2
Invited

Distributed Acoustic Sensing: System And Experiments
Tuanwei Xu, Gaosheng Fang, Yue Jiang, Jianfei Huang, Fang Li
Institute of Semiconductors, CAS

17:15–17:45
Oral 3-4C-3
Multi-parameter Measurements Based On Distributed Fiber Sensing Technologies
Tao Zhu, Jingdong Zhang
Chongqing Univ

17:45–18:00
Oral 3-4C-4
A Hybrid Distributed Optical Fiber Sensor For Acoustic And Temperature Fields Reconstruction
Yixin Zhang, Yuanyuan Shan, Yinseng Cai, Zhenhong Sun, Xuping Zhang
Nanjing Univ

17:45–18:00
Oral 3-4D-5
Demodulation Of Fiber Acoustic Sensor Based On Ripple Spectrum
Xin Fu, Ping Lu, Deming Liu, Jiangshan Zhang
Huazhong Univ of Science and Technology

16:45–17:15
Oral 3-4C-2
Invited

Metal-Halide Perovskites For Lasing And Electroluminescence
Guichuan Xing
Univ of Macau

17:30–17:45
Oral 3-4D-4
Different Carrier Recombination Processes In CsPbBr\textsubscript{3} Quantum Dots And Microcrystals
Cheng Qian, Tingting Yin, Jiaxu Yan, Zexiang Shen
Nanyang Technological Univ

17:45–18:00
Oral 3-4D-5
Stability Of CH\textsubscript{3}NH\textsubscript{3}PB\textsubscript{3} And Evolution Of H-bonding During Its Polymorphic Transformations
Tingting Yin, Jiaxu Yan, Zexiang Shen
CDPT-SPMS NTU

16:45–17:00
Oral 3-4A-2

Intergation Of Fiber Micromachining And Functional Materials For Fiber-based Sensing Technologies
Minghong Yang, Kun Yang, Jixiang Dai
Wuhan Univ. Tech.

17:15–17:30
Oral 3-4A-3

Relative Humidity And Temperature Sensor Based On Polished Titled Fiber Bragg Gratings
Jui-Nan Cheng, Hung-Ying Chang, Wen-Fung Liu, Po-Chia Huang, Fan Ku, Yu-Chung Chang
Feng-Chia Univ

17:30–17:45
Oral 3-4A-4
Theoretical Analysis And Simulation About New Method Of Long Period Fiber Grating With Liquid
Jihyun Hwang, Jung Shin Lee
Yonsei Univ.

17:45–18:00
Oral 3-4A-5

Micro Fiber With Titanium Dioxide (TiO\textsubscript{2}) Nanoparticles And Violet Light Sensing
Donghui He, Yang Hu, Huihu Liu, Heyuan Guan, Xiaojie Zheng, Guangyin Jing, Jieyuan Tang, Jianhui Yu, Zhe Chen, Jun Tao, Yunhan Luo, Hua-An Liu, Zhang Jun
Jinan Univ

16:45–17:00
Oral 3-4B-2

Dissipative Solitons With Extreme Spikes
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The Australian National Univ

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Oral 3-4B-5
Even/Odd Mode-Selective Double Frequency-Spaced Optical Comb Generation By Quad-Parallel Phase Modulator
Takahide Sakamoto, Akito Chiba
National Institute of Information and Communications Technology

17:45–18:00
Oral 3-4B-6
Wavelength Shifted Third Harmonic Generation In An Exposed-core Microstructured Optical Fiber
Stephen Warren-Smith, Jingxuan Wei, Mario Chemnitz, Roman Kostecki, Heike Ebendorff-Heidepriem, Tanya Monro, Markus Schmidt
Leibniz Institute of Photonic Technology

16:45–17:15
Oral 3-4C-2
Invited

Distributed Acoustic Sensing: System And Experiments
Tuanwei Xu, Gaosheng Fang, Yue Jiang, Jianfei Huang, Fang Li
Institute of Semiconductors, CAS

17:15–17:45
Oral 3-4C-3
Multi-parameter Measurements Based On Distributed Fiber Sensing Technologies
Tao Zhu, Jingdong Zhang
Chongqing Univ

17:45–18:00
Oral 3-4C-4
A Hybrid Distributed Optical Fiber Sensor For Acoustic And Temperature Fields Reconstruction
Yixin Zhang, Yuanyuan Shan, Yinseng Cai, Zhenhong Sun, Xuping Zhang
Nanjing Univ

17:45–18:00
Oral 3-4D-5
Demodulation Of Fiber Acoustic Sensor Based On Ripple Spectrum
Xin Fu, Ping Lu, Deming Liu, Jiangshan Zhang
Huazhong Univ of Science and Technology

16:30–17:00
Oral 3-4D-2
Invited

Metal-Halide Perovskites For Lasing And Electroluminescence
Guichuan Xing
Univ of Macau

17:00–17:30
Oral 3-4D-3
Invited

Probing Carrier Recombination Kinetics And Carrier-phonon Coupling In Perovskite Films
Ee Min Chia
Nanyang Technological Univ

17:30–17:45
Oral 3-4D-4
Different Carrier Recombination Processes In CsPbBr\textsubscript{3} Quantum Dots And Microcrystals
Cheng Qian, Tingting Yin, Jiaxu Yan, Zexiang Shen
Nanyang Technological Univ

17:45–18:00
Oral 3-4D-5
Stability Of CH\textsubscript{3}NH\textsubscript{3}PB\textsubscript{3} And Evolution Of H-bonding During Its Polymorphic Transformations
Tingting Yin, Jiaxu Yan, Zexiang Shen
CDPT-SPMS NTU
Fiber Optic Sensors- Principles, Applications & Some Recent Experiments
Partha RoyChaudhuri
Indian Institute of Technology Kharagpur
Abdul Hamid
Univeristi Teknologi Brunei (UTB)

17:30–18:00
Oral 3-4E-5
Invited

Low-Driving-Voltage Silicon DP-IQ Modulator For 100G And Beyond
Kazuhiro Goi, Norihiro Ishikura, Mikhail Ilarionov, Haife Zhu, Kensuke Ogawa, Yuki Yoshida, Kenichi Kitayama, Tsung-Yang Liow, Xiaoqiang Tu, Guo-Qiang Lo, Dim-Lee Kwong
Fujikura Ltd.

Taming the light in optical fibers for sensing
Heike Ebendorff-Heidepriem
University of Adelaide

Room I: 4812
Photonics Global Student Conference IV
Presider: Mengying Zhang

16:15—16:30
Oral 3-4I-1

Thermally Induced Reversible Effect In FBG Sensors And The Impact Of Temperature Ramping Rate
Dinusha Gunawardena, Kok-Sing Lim, Harith Ahmad
The Hong Kong Polytechnic Univ

16:30—16:45
Oral 3-4I-2

Nonlinear Optical Properties Of Two-dimensional Layered Semiconductors
Anton Autere, Antti Säynätjoki, Henri Jussila, Lasse Karvonen, Harri Lipsanen, Robert Norwood, Nasser Peygambarian, Khanh Kieu, Zhibei Sun
Aalto University

16:45—17:00
Oral 3-4I-3

Graphene Photo-detector Enhanced By Plasmonic Coupling
Alireza Maleki, David Coutts, James Downes, Benjamin Cumming, Min Gu, Judith Dawes
Macquarie Univ

17:00—17:15
Oral 3-4I-4

A Remote Cloak For Arbitrary Objects In DC Frequency
Tianhang Chen, Bin Zheng, Lian Shen, Huaping Wang, Shahram

Room J: 4912
Plasmonics and Metamaterials VI
Presider: Yu Luo

16:15—16:45
Oral 3-4J-1
Invited

Novel Nanophotonic Light Sources
Marin Soljacic
MIT

16:45—17:00
Oral 3-4J-2

Testing Robustness Of Photonic Topological Edge States
Fei Gao, Zhen Gao, Hongsheng Chen, Ling Lu, Yidong Chong, Baile Zhang
Nanyang Technological Univ

17:00—17:15
Oral 3-4J-3

Graphene Photo-detector Enhanced By Plasmonic Coupling
Alireza Maleki, David Coutts, James Downes, Benjamin Cumming, Min Gu, Judith Dawes
Macquarie Univ

17:15—17:30
Oral 3-4J-4

Room K: 4203
Technology for High-Capacity System
Presider: Shaoliang Zhang

16:15—16:45
Oral 3-4K-1
Invited

Information Theory For Dispersion-Free Fiber Channels With Distributed Amplification
Kramer Gerhard
Technical Univ of Munich

16:45—17:00
Oral 3-4K-2

RIN-Penalty Mitigation And Transmission Performance Improvement Using Forward-Propagated Broadband First Order Raman Pump
Mingming Tan, Md Iqbal, Lukasz Krzczanowicz, Jan Phillips, Atalla El-Taher, Wladek Forysiak, Paul Harper
Aston University

17:00—17:15
Oral 3-4K-3

Nonlinear Frequency Division Multiplexed Transmissions With 64QAM
Buelow Henning
Nokia-Bell Labs
### Enhanced Magnetic Response In Doped High-index Subwavelength Nanoparticles

Shahraam Afshar, Jonathan Hall, Shaghik Atakaramians, Andrey Miroshnichenko, Yuri Kivshar, Tanya Monro
Univ of South Australia

### Joint Equalization Scheme for Multi-polarization Effects in Faster Than Nyquist WDM Transmission Systems

Nan Cui, Yiqiao Feng, LinQian Li, Lixia Xi, Xianfeng Tang, Wenbo Zhang, Xiaoguang Zhang
State Key Laboratory of Information Photonics and Optical Communications

### Room M: 4611
**Dynamics of Ultrafast Lasers**
Presider: Chengbo Mou

**16:15–16:45**
**Oral 3-4M-1**
*Invited*

All-fibre Passively Mode-locked Fibre Lasers Using A Nonlinear Amplifying Loop Mirror
Neil Broderick
Univ of Auckland

Ablation-cooled Laser-material Removal Sets New Targets For Ultrafast Lasers
F. Omer Ilday, Hamit Kalaycioglu, Elahi Parviz
Bilkent Univ

### Room N: 4612
**Optical Switching Systems and Related Technologies II**
Presider: Bo Zhang

**16:15–16:45**
**Oral 3-4N-1**
*Invited*

Some Issues On Future Optical Transport Network Evolution
Gangxiang Shen
Soochow Univ

Optical Switches And Their Applications In Optical Cross Connect (OXC)
Yimin Hua
O-Net Technologies (Group) Limited

### Room O: 4613
**Nitrides, Other Widegap Semiconductors III**
Presider: Hilmi Volkan

**16:15–16:45**
**Oral 3-4O-1**
*Invited*

Full Color Quantum-Dot On GaN Micro-Display
Hao-Chung Kuo
National Chiao Tung Univ

Development Of High Performance (0001) LEDs: Tunnel Junctions And Green LEDs
James S. Speck
Univ of California, Santa Barbara

### Room P: 4711
**Lab-in-a-Fiber Technologies III**
Presider: Annamaria Cucinotta

**16:15–16:45**
**Oral 3-4P-1**
*Invited*

Surface Textured Multi-material Fibers
Fabien Sorin, Tung Nguyen-Dang, Wei Yan, Yunpeng Qu, Alexis G. Page, Tapajyoti Das Gupta
Institute of Materials, EPFL

Plasmonic Optical Fiber Engineering: From Template Transfer To Nanoimprint
Peipei Jia, Jun Yang, Heike
Observation Of Bound Soliton Sequences From A Compact Mode-locked Fiber Laser
Handing Xia, Heping Li, Xiaoyan Zhou, Zhiqing Wu, Zhaohua Shi, Feng Geng, Sun Linaix, Jing Huang, Xiaodong Jiang, Weidong Wu
China Academy of Engineering Physics

Dynamic Characterization Of Mode-Locked Laser Using A High Order Microring Resonator
Li Jin, K. S. Tsang, Alessia Pasquazi, Victor Ho, Brent E. Little, David J. Mass, Roberto Morandotti, Sai Tak Chu
City Univ of Hong Kong

Real-time Spectral Characteristics Of Vector Solitons In A Fiber Laser
Meng Liu, Ai-Ping Luo, Wen-Cheng Xu, Zhi-Chao Luo
South China Normal Univ

Tunable Raman Soliton Beyond 2 μm
Jiaqi Luo, Biao Sun, Junhua Ji, Eng Leong Tan, Xia Yu
Nanyang Technological Univ.
S. J. Ben Yoo
Univ of California Davis

16:45–17:00
Oral 3-4R-2
Horizontal-parallax-only Light Field 3D Display Based On Stacked LCDs
Xinxing Xia, Song Guo, Phil Surman, Yuanjin Zheng
XINGNanyang Technological Univ

17:00–17:30
Oral 3-4R-3
Invited
Directional Backlight Naked-eye 3-D Display Towards Glasses-less Virtual Reality
Hoowen Liang, Jiahui Wang, Yangui Zhou, Fan Hang, Kunyang Li, Peter Krebs, Haiyu Chen, Yuman Xu, Jianying Zhou
Sun Yat-sen Univ

17:30–17:45
Oral 3-4R-4
Dynamic 3D Holographic Display With Enhanced Viewing Angle And Image Area By Active Control Of Volume Speckle Fields
Hyeonseung Yu, KyeoReh Lee, Jongchan Park, YongKeun Park KAIST

17:15–17:45
Oral 3-4S-4
Invited
Valley Photonic Crystals (VPCs) For Control Spin And Topology
Jianwen Dong
Sun Yat-sen Univ

17:45–18:15
Oral 3-4S-5
Invited
Ultra-low Phase Noise Microwave Signal From An Optical Frequency Comb
Yann Le Coq, Romain Bouchaud, Daniele Nicolodi, Michele Giunta, Wolfgang Hansel, Matthias Lezius, Abhay Joshi, Shubo Datta, Christophe Alexandre, Michel Lours, Pierre-alain Tremblin, Giorgio Santarelli, Ronald Holzwarth, Xiaopeng Xie
LNE-SYRTE, Observatoire de Paris, PSL Research Univ

Xihua Zou
Southwest Jiaotong Univ

16:45–17:00
Oral 3-4S-2
Programmable Optical Chips For Integrated Microwave Photonics
Leimeng Zhuang
Electro-Photonics Laboratory, Monash Univ

17:00–17:15
Oral 3-4S-3
Millimeter-Wave Antenna Beam Forming By Radio-over-Fiber With 1.3 um Light Source And Variable Delay Line
Tatsuya Nagayama, Kotoko Furuya, Shigeyuki Akiba, Jiro Hirokawa, Makoto Ando
Tokyo Institute of Technology

17:45–18:00
Oral 3-4S-7

16:30–16:45
Oral 3-4T-2
Performance Analysis Of 4x20 Gb/s TWDM PON Using An OFDM-QAM Modulated Downstream.
Qinglong Luo, Min Feng, Chenglin Bai
Liaocheng Univ

16:45–17:00
Oral 3-4T-3
Three-Dimensional 4x4 Polymer Optical Switch Using Vertical Multimode Interference Couplers For Flexible Expansion Of Connectable Vertical Distant
Yuichi Kimura, Kensa Ema, Yuichi Matsushima, Ishikawa Hiroshi, Utaka Katsuuyuki
Waseda Univ

17:00–17:15
Oral 3-4T-4
Fabrication-friendly High-efficiency Silicon Nitride Grating Coupler
Pengfei Xu, Yanfeng Zhang, Zengkai Shao, Lin Liu, Yujie Chen, Siyuan Yu
Sun Yat-sen Univ

17:15–17:30
Oral 3-4T-5
Geometric Phase Via Stress Induced Birefringence
Martynas Beresina, Gilberto Brambilla, Xuewen Wang, Saulius Juodkazis, Raymond Rumpf
Univ of Southampton

17:30–17:45
Oral 3-4T-6
Two-dimensional Modeling With Experimental Verification Of A Linear Variable Filter For Spectral Order Sorting Of 400-1000nm
Cheng-Hao Ko, Yueh-Hsun Wu, Symphony Chakraborty, Kinjal J. Shah, Jih-Run Tsai, Bang-Ji Wang, Shin-Fa Lin, Chiu-Der Hsiao
National Taiwan Univ of Science and Technology

17:45–18:00
Oral 3-4T-7

17:00–17:15
Oral 3-4R-4
Invited
Silicon Photonic Phased Array For High-resolution And Wide Angle Beamsteering
Jie Sun, Haisheng Rong, Doylend Jonathan, Heck John
Intel
InGaN/GaN Multiple Quantum Well Based Micro-photodetector For High-speed Visible Light Communications
Kang Ting Ho, Guangyu Liu, Chao Shen, Jorge Holquin-Lerma, Abeer Al-Saggaf, Jr-Hau He, TienKhee Ng, Boon Siew Ooi
KAUST
Poster Sessions

Poster Session 1  
Time: 10:15am – 11:45am  
Date: 2 Aug 2017

P1-001 All-fiber Femtosecond Laser Pulse Generation At 1.55 µm And 2 µm Using A Common Carbon-nanotube Based Saturable Absorber  
Sivasankara Rao Yemineni, Alphones Arokiaswami, Ping Shum  
Nanyang Technological University

P1-002 Comparison Between Tape Casting YAG/Nd:YAG/YAG And Nd:YAG Ceramic Lasers  
Yufei Ma, Xudong Li, Lin Ge, Jiang Li, Renpeng Yan, Xin Yu, Rui Sun  
Harbin Institute of Technology

P1-003 Tunable Passively Q-Switched Erbium-Doped Fiber Laser Using Exfoliated MoS2 As Saturable Absorber  
Siti Aisyah Reduan, Harith Ahmad  
Photonics Research Centre

P1-004 1.04 Km Ultra-Long Cladding-Pumped Thulium-Doped Fiber Laser With Large Energy Noise-Like-Toped Dissipative Soliton Resonances  
Junqing Zhao, Luming Zhao, Lei Li, Ying Geng  
Jiangsu Normal University

P1-005 155 W Nanosecond Ytterbium-doped Pulsed Fiber Laser  
Meng Liu, Betty Meng Zhang, Perry Ping Shum, Xueping Cheng, Jian Liu, Jiangjie Zhu, Huanxian Zhou, Meng Lei  
Nanyang Technological University

Huanhuan Liu  
Shanghai University
P1-007 Longer Than 1.9 µm Photoluminescence Emission From InAs Quantum Structure On GaAs (001) Substrate

Yulian Cao, Ke Liu, Wenquan Ma, Jianliang Huang, Yanhua Zhang, Wenjun Huang
Institute of Semiconductors, Chinese Academy of Sciences

P1-008 Spectrum Influence Of Amplified Spontaneous Emission For Thin Disk Lasers

Zhaocong Lin, Guangzhi Zhu, Xiao Zhu, Qiao Yu, Hailin Wang, Wenguang Zhao
Huazhong University of Science and Technology

P1-009 Dioptric Power Measurement Of Thin-disk Laser

Jiaqi Gu, Xiao Zhu, Guangzhi Zhu, Hailin Wang, Deng Cao
Huazhong University of Science and Technology

P1-010 Influence Of Anti-ASE Cap On Amplified Spontaneous Emission Of Thin Disk Lasers

Qiao Yu, Hailin Wang, Guangzhi Zhu, Xiao Zhu, Zhaocong Lin, Jinbo Yu
Huazhong University of Science and Technology

P1-011 Ultra-Thin Fiber-Tip Micro-Bubble Sensor For Pressure Measurement

Xinglin Liu, Guanjun Wang, Zhibin Wang, Jinyu Gu, Xinwei Luo
North University of China

P1-012 A Single Frequency Fiber Laser With An On-Chip High-Q Silicon Microring Cavity

Yuanjue Zhang, Yu Li, Yi Yang, Minghua Chen, Sigang Yang, Hongwei Chen
Tsinghua University

P1-013 783 fs and 747 fs Operation of Diode-pumped Nd,La:CaF$_2$ and Nd,La:SrF$_2$ Lasers

Václav Kubeček, Marek Vlk, Michal Jelínek, Miroslav Čech, David Vyhlidal, Liangbi Su, Dapeng Jiang, Fengkai Ma
Czech Technical University in Prague
P1-014 Parametric Raman Crystalline Anti-Stokes Laser at 503 nm With Collinear Orthogonally Polarized Beam Interaction at Tangential Phase Matching
Sergei Smetanin, Michal Jelinek, Vaclav Kubecek
A.M. Prokhorov General Physics Institute of RAS Moscow, Russian Federation

P1-015 Thin-Rod And Thin-Tapered-Rod Ytterbium Amplifiers For Fiber Lasers
Ivan Kuznetsov, Ivan Mukhin, Olga Vadimova, Oleg Palashov, Ken-Ichi Ueda
Institute of Applied Physics of the Russian Academy of Science

P1-016 High-Power Laser Based On Amplifiers With Yb:YAG Elements Of Advanced Geometries
Ivan Kuznetsov, Ivan Mukhin, Evgeniy Perevesentsev, Mikhail Volkov, Oleg Palashov
Institute of Applied Physics of the Russian Academy of Science

P1-017 Mid-infrared Diode-pumped Pulsed Lasers Based On Two-dimensional Materials
Jing Liu
Shandong Normal University

P1-018 A Numerical Study Of Single-pulse Dual-wavelength Mode-locked Waveguide Laser
Zhang Wen Qi, Afshar Vahid Shahraam, Lancaster David, Monro Tanya
The University of South Australia

P1-019 Passively Q-switched Erbium-doped Fiber Laser Using A Brewster Fiber Grating
Tianxing Wang, Zhijun Yan, Chengbo Mou, Kaiming Zhou, Lin Zhang
Shanghai University

P1-020 Chirp Impact On Manipulation Of Group-velocity-locked Vector Soliton
Xuan Wang, Lei Li, Qian Zhang, Ying Geng, Hanxiao Wang, Luming Zhao
Jiangsu Normal University

P1-021 Mid-infrared Fluoride Raman Fiber Laser Pumped By Erbium Doped Fluoride Fiber Laser
Tianfu Yao, Liangjin Huang, Pu Zhou, Bing Lei, JinYong Leng, Jinbao Chen
P1-022 Optical Properties And Laser Performance Of Tm-doped Photonic Crystal Fiber With La$_2$O$_3$-Al$_2$O$_3$-SiO$_2$ Glasses
Xia Changming, Liu Jiantao, Zhang Wei, Yuan Jinhui, Zhou Guiyao
South China Normal University

P1-023 Preparation And Characterization Of Radiation Hard Fiber
Zhendong Wang, Chen Yang, Feng Xu, Song Wang, Weijun Tong
Yangtze Optical Fiber & Cable Joint Stock Co. Ltd.

P1-024 Efficient Self-Similar Evolution And Intensity Noise Suppression In High-Gain Femtosecond Fiber Amplifiers Using Pump-Wavelength Optimization
Sijia Wang, Peng Qin, Bowen Liu, Minglie Hu
China Academy of Space Technology

P1-025 Compact All-PM-fiber Er-laser Mode-locked By A Phase-biased Nonlinear Amplifier Loop Mirror
Qiang Hao, Feihong Chen, Heping Zeng
University of Shanghai for Science and Technology

P1-026 Contentious-wave Lasing Near 1.55 µm In Microcylinder With Quantum Dot Active Regions
Jinlong Xiao
Institute of Semiconductors, Chinese Academy of Sciences

P1-027 Supercontinuum Generation By Self-phase Modulation And Induced Phase Modulation At Fused Silica Thin Plate Array
Yuki Yamaguchi, Ryohei Hida, Takakazu Suzuki, Fumihiko Kannnari
Keio University

P1-028 Wavelength Switchable Fiber Laser With Sampled Fiber Bragg Grating Reflectors By Mode-locking Frequency
Yael Sourani, Alexander Bekker, Boris Levit, Baruch Fischer
Technion – Israel Institute of Technology

P1-029 UV Luminescence In Gd-doped Silica And Phosphosilicate Optical Fibres
Yun Wang, Jing He, Pranabesh Barua, Norberto Chiodini, Sebastian Steigenberger, Muhammad Imran Mustafa Abdul Khudus, Jayanta Sahu, Martynas Beresna
University of Southampton

P1-030 Mode-filtering Of A Fiber-based Optical Frequency Comb With Long-fiber-based Ring Resonator For Repetition Rate Multiplication
Nakajima Yoshiaki, Nishiyama Akiko, Yoshida Satoru, Haruki Takuya, Minoshima Kaoru
The University of Electro-Communications

P1-031 Direct Bonding Of A Laser Crystal And Copper By Use Of The Room-temperature Bonding
Tomoki Matsui, Shin Katsumata, Ichiro Shoji
Chuo University

P1-032 In-band Pumped Er:YAG Ceramic Q-switched Laser At ~1.6 µm Wavelength Region
Wang Yong, Shen Deyuan, Zhang Jian, Tang Dingyuan
Jiangsu Normal University

P1-033 Polymer Waveguide Incorporated With Europium-aluminum Polymer Composite For Compact And High-gain Optical Amplification Devices
Yurie Yoshida, Toshimi Fukui, Takaaki Ishigure
Keio University

P1-034 Pulse-spacing Manipulation In A Passively Mode-locked Fiber Laser
Ying YU, Xiaoming WEI, Jiqiang KANG, Bowen LI, Kenneth K. Y. Wong
The University of Hong Kong

P1-035 Mid-infrared (6-18µm) Optical Vortex Parametric Laser With Topological Charge Versatility
Kana Ando, Azusa Ogawa, Katsuhiko Miyamoto, Takashige Omatsu
P1-036 Optical Vortex Beam Conversion Based On Resonator With An Intra-cavity Spiral Phase Plate
Yuanyao Lin, Chia-Chi Yeh
National Sun Yat-Sen University

P1-037 Laser Linewidths Measurement Based On The Strong Coherent Envelope
Shihong Huang, Tao Zhu, Guolu Yin, Ligang Huang, Min Liu, Wei Huang
Chongqing University

P1-038 Diode-pumped High-power Kerr-lens Mode-locked Yb:CYA Laser
Wenlong Tian, Yingnan Peng, Jiangfeng Zhu, Zhiyi Wei, Xiaodong Xu
Xidian University

P1-039 Employing A Compact Master Oscillator Power Amplifier To Generate Megawatt Q-switched Laser
Chunyu Cho
National Chiao Tung University

P1-040 3.5-W, Femtosecond Chirped Pulse Amplification Fiber Laser System At 1560 nm
Parviz Elahi, Huihui Li, F. Ömer Ilday
Bilkent University

P1-041 Numerical Simulations Of Sub-100 fs Soliton Fiber Laser Mode-locked By Graphene
Jakub Bogusławski, Grzegorz Soboń, Aleksandra Przewolka, Aleksandra Krajewska, Włodek Strupiński, Krzysztof M. Abramski, Jarosław Sotor
Wrocław University of Science and Technology

P1-042 Improved Performance of Fiber Optic Hydrogen Sensor Based on High Reflective Bragg Grating and WO$_3$-Pd$_2$Pt-Pt Composite Films
Li Zhu, Jixiang Dai, Yaobin Qi, Gaopeng Wang, Feng Xiang, Yuhuan Qin, Minghong Yang
Wuhan University of Technology
P1-043 50-W, 1.6-GHz Pulse Repetition Rate From A Burst-Mode Yb-Doped Fiber Laser
Parviz Elahi, Ayse Cansu Ertek, Koray Eken, F. Ömer Ilday
Bilkent University

P1-044 Development Of Ultrashort Pulse Fiber CPA System
Senna Fujino, Kouji Isaku, Kanto Amamoto, Ryutaro Nagai, Kazuhide Satou, Kazuyoku Tei, Shigeru Yamaguchi, Jun Enokidani
Tokai University

P1-045 Numerical And Experimental Analysis Of Spectral Broadening In Picosecond Multi-stage Fiber Amplifier
Koji Isaku, Sena Fujino, Ryutoro Yamashita, Ken-ichi Takiuchi, Kazuyoku Tei, Shigeru Yamaguchi, Jun Enokidani
Tokai University

P1-046 Watt-level, Ultrafast Fiber Laser Functioned With Ultraweak Evanescent Field
Lei Gao, Tao Zhu
Chongqing University

P1-047 M² Quality Factor Measurement Without Power And Wavelength Limit Based On Infrared Image Technology
Zhao Wang, Nengli Dai, Yingbin Xing
Huazhong University of Science & Technology

P1-048 Multiwavelength Erbium-Brillouin-Raman Random Fiber Laser
Qiheng He, Han Wu, Zinan Wang
University of Electronic Science and Technology of China

P1-049 Tunable And Cascaded Brillouin-Erbium Random Fiber Laser
Changqing Huang, Jin Xu, Songlin Zhuang, Xinyong Dong
University of Shanghai for Science and Technology
P1-050 Characteristics Of Double Fiber Ring Incorporated With A Fiber Bragg Grating
Xiaoqiong Qin, Zujie Fang, Zhidan Ding, Zhaoyong Wang, Fei Yang, Qing Ye, Ronghui Qu, Haiwen Cai
Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

P1-051 Simulated Beam Propagation In Nonlinear Optical Process For Management Of Efficient Wavelength Conversion
Susumu Kato, Sunao Kurimura, Norikatsu Mio
National Institute of Advanced Industrial Science and Technology

P1-052 Passively Mode-locked Er-fiber Laser By Using Tm-Ho Co-doped Fiber As The Saturable Absorber
Xiaorong Gu, Zhiping Ju, Youwen Liu, Yao Li
Nanjing University of Aeronautics and Astronautics

P1-053 Next-Generation Multimode Fiber With Ternary Glass System
Xinben Zhang, Weijun Tong, Runhan Wang, Rong Huang, Ruichun Wang
Yangtze Optical Fibre and Cable Joint Stock Limited Company

P1-054 An All-PM Fiber Source Generating 5.4 NJ, 95 fs Laser Pulses In The 2 µm Spectral Range
Jaroslaw Sotor, Grzegorz Sobon, Tadeusz Martynkien, Karol Tarnowski, Pawel Mergo
Wroclaw University of Science and Technology

P1-055 Resonantly Pumped Er:YAG Ceramic Single-frequency Laser
Lei Wang
China Academy of Space Technology

P1-056 Dual-frequency Yb³⁺-doped DBR Fiber Laser With 32 GHz Frequency Difference
Yubin Hou, Qian Zhang, Shuxian Qi, Xian Feng, Pu Wang
Beijing University of Technology
P1-057 Single Longitudinal-mode Fiber Laser Based On Theta-Shaped Microfiber Filter
Zhilin Xu, Yiyang Luo, Qizhen Sun, Baocheng Li, Perry Ping Shum, Deming Liu
Nanyang Technological University

P1-058 Manipulation Of Vector Solitons From Atoms To Molecules
Yiyang Luo, Luming Zhao, Qizhen Sun, Lei Li, Songnian Fu, Deming Liu
Huazhong University of Science and Technology

P1-059 Thulium-doped Fiber Chirped Pulse Amplifier And Its Application For Mid-IR Supercontinuum Generation In ZBLAN Fiber
Fangzhou Tan, Hongxing Shi, Jiang Liu, Pu Wang
Beijing University of Technology

P1-060 Various Bound Solitons In Dispersion-Managed Fiber Lasers
Yiyang Luo, Yang Xiang, Bowen Liu, Zhijun Yan, Songnian Fu, Deming Liu, Qizhen Sun
Huazhong University of Science and Technology

P1-061 Second Harmonic Generation Based On A 1 µm Femtosecond Fiber CPA System
Chang Hong, Ruoyu Sun, Yu Wang, Pu Wang
Beijing University of Technology

P1-062 Low-repetition-rate All-PM-fiber Andi Mode-locked Fiber Laser With Sub-nanosecond Pulse
Xiaosheng Xiao
Tsinghua University

P1-063 Extreme Thermal Stability Of 1550 nm Band Highly Stacked QD-LDs With P-Doped Structure
Atsushi Matsumoto, Kouichi Akahane, Toshimasa Umezawa, Naokatsu Yamamoto
National Institute of Information and Communications Technology

P1-064 Ultra-wide Square Pulses Generation In A Yb-doped Fiber Laser Based On Nonlinear Polarization Rotation Effect
Yafei Cao, Dongfang Jia, Tonghui Liu, Zhaoying Wang, Tianxin Yang
Tianjin University

P1-065 Experimental Investigation Of High Power All-fiber Amplifier With A Closed Fiber Laser Cavity
Jianming Wang, Cheng Li, Dapeng Yan
Huazhong University of Science and Technology

P1-066 Effective Mitigation Of Photo-darkening By Na⁺ Ions Doping In Yb-doped Fibers
Nan Zhao, Haiqing Li
Huazhong University of Science and Technology

P1-067 Effects Of Inhomogeneity In Distribution Of Scatterers On Random Laser Emission
Takashi Okamoto, Masaki Mori, Tatsuma Haruno
Kyushu Institute of Technology

P1-068 Numerical Analysis of Signal Recycling in Multiwavelength Brillouin-erbium Fiber Laser
Nurul Atiqah Bt Ahmad, Noran Azizan Cholan, Samsul Haimi Dahlan
Universiti Tun Hussein Onn Malaysia

P1-069 A Monte-Carlo-Based Methodology For Determining The Fabrication Yield Of Fiber Designs For Laser Amplifiers
Ang Wen-Wei Shaun, Seah Chu-Perng, Chua Song-Liang
DSO National Laboratories

P1-070 All-fiberized, In-band Pumped Ho-doped Fiber Laser Operating At 2.1 µm
Jiachen Wang, Sang Bae Lee, Kwanil Lee
Korea Institute of Science and Technology

P1-071 Generation of Wide Frequency-Spacing Optical Frequency Comb Composed Of Odd/Even Multiple Harmonics
Akito Chiba, Nobuhiro Kobayashi, Yuta Moteki, Takahide Sakamoto, Kazumasa Takada
Gunma University

P1-072 Discretely Wavelength-swept Fiber Laser Based On Temporal-spectral Multiplexing
Eunjoo Lee, Byoung Yoon Kim
Korea Advanced Institute of Science and Technology

P1-073 Measurement Of Refractive Index Change In Nonlinear Crystals Using Wavefront Sensor
Atsushi Fuchimukai, Yoichi Sasaki, Chen Qu, Yuki Tamaru, Taisuke Miura, Takashi Matsunaga
Gigaphoton Inc.

P1-074 Passive Hybrid Harmonic Mode-Locked Fiber Sigma Laser Using Integrated Faraday Rotator
And SESAM With Amplitude Modulation Stabilization
Kevin L.F. Lui, Kwong Shing Tsang, Mary Fung, Victor Ho, Hideaki Furukaw, Takeshi Makino, Tetsuya
Kobayashi, Xiaomin Wang, Naoya Wada, Ray Man
Amonics Limited

P1-075 Lasing Characteristics Of Tandem-pumped Yb Fiber Lasers
Hanyang university

P1-076 Generation Of 408 fs Dark Soliton Pulse In A Mode-locked Ytterbium-doped Fiber Laser
Junli Wang, Haotian Jia, Hao Teng, Shaobo Fang, Zhiguo Lv, Wenjun Liu, Zhiyi Wei, Jiangfeng Zhu
Xidian University

P1-077 Laser Performance Of Cr^{2+}:CdSe Crystal With Anti-reflection Coating
Mikhail K. Tarabrin, Toney T. Fernandez, Yuchen Wang, Vladimir A. Lazarev, Stanislav O. Leonov,
Valeriy E. Karasik, Yuri V. Korostelin, Yan K. Skasyrsky, Mikhail P. Frolov, Yurii P. Podmarkov, Vladimir
I. Kozlovsky, Cesare Svelto, Pasquale Maddaloni, Nicola Coluccelli, Paolo Laporta, Gianluca Galzerano
Bauman Moscow State Technical University

P1-078 All-Optical Switch Using Cascaded Second-order Nonlinear Effect In PPLN: Pattern Effect Of
Period Error
Yuta ka Fukuchi, Taichi Matsuura
Tokyo University of Science

P1-079 Filamentation: One Solution For Both High Field Amplitude And High Imaging Resolution Of THz Wave
Weiwei Liu
Nankai University

P1-080 Tunable Tm-doped Fiber Laser Mode Locked By Carbon Nanotubes
Wenlei Li, Xueming Liu
Xi’an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences

P1-081 Single-Shot Laser Pulse Reconstruction Based On Self-Phase Modulation In A Kerr Medium And Spectral Interferometry
Elena Anashkina, Alexey Andrianov, Vladislav Ginzburg, Anton Kochetkov, Ivan Yakovlev, Arkady Kim
Institute of Applied Physics of the Russian Academy of Sciences

P1-082 Study Of Femtosecond Laser Induced Circular Optical Properties By Mueller Matrix Spectropolarimetry
Jing Tian, Matthieu Lancry, Enric Garcia-Caurel, Razvigor Ossikovski, Bertrand Poumellec
University Paris Saclay

P1-083 Single-shot Burst Imaging Of Ultrafast Phenomena With Sub-picosecond Resolution And Sub-nanosecond Time Window
Takakazu Suzuki, Ryohei Hida, Yuki Yamaguchi, Fumihiko Kannari
Keio University

P1-084 Generation Of Few-Cycle Laser Pulses By Coherent Synthesis Basing On Femtosecond Yb Fiber Laser
Aichen Ge, Bowen Liu, Haochen Tian, Youjian Song, Minglie Hu
Tianjin University
P1-085 Effect Of Interfacial States On Charge-Transfer Dynamics In Type II Zinc Oxide-Tin Oxide Heterostructures-A Femtosecond Transient Absorption Study
Zhongguo Li, Anran Song, Lingyan Liang, Hongtao Cao, Xingzhi Wu, Yinglin Song
Changshu Institute of Technology

P1-086 Observation of Bound Soliton in Mode Locked Fiber Laser Exploiting Simplified Nonlinear Polarization Rotation
YingLong Gu, Yong Yao, YanFu Yang, JiaJun Tian
Harbin Institute of Technology Shenzhen Graduate School

P1-087 Ultrafast Vibronic Dynamics In Zinc Chlorin Aggregates For Artificial Photosynthetic Systems
Juan Du, Yuxin Leng, Takayoshi Kobayashi, Tomohiro Miyatake, Hitoshi Tamiaki
Shanghai Institute of Optics and Fine Mechanics (SIOM), Chinese Academy of Sciences

P1-088 Optical Limiting And Nonlinear Optical Properties Of GO Functionalized By CdTe Quantum Dots
Mojtaba Ebrahimi, Abdolnaser Zakery, Mehdi Molaei
Physics, Shiraz University

P1-089 Nonlinear Optical And Optical Limiting Properties Of Suspensions Of GO In Ethanol And Water
Abdolnaser Zakery, Mojtaba Ebrahimi, Mohamad Mehdi Doroodmand
Physics, Shiraz University

P1-090 Creation And Orientation Of Nano-crystals By Femtosecond Laser Light For Controlling Optical Non-linear Response In Silica-based Glasses
Jing Cao, François Brisset, Leo Mazerolles, Matthieu Lancer, Bertrand Poumellec
University Paris Saclay

P1-091 Refractive Index Sensing By The Ratio Of Forward-propagating And Backward-propagating Second-harmonic Signal From Metal Nanoparticles
Xianghui Wang, Jingwei Sun, Shitong Xu, Fei Fan, Shengjiang Chang
Nankai University
P1-092 Quantized Radiation Properties Of Single Electrons In Atomic Cascade Three-Level Systems
Kwang Jun Ahn
Department of Energy Systems Research & Physics

P1-093 Vector Solitons In Mode-locked Fiber Lasers By Fast-axis Instability
Yueqng Du, Xuewen Shu, Peiyun Cheng
Huazhong University of Science and Technology

P1-094 Enhanced Up-conversion Emission By Single Plasmonic Nanoparticle With Femto-second Laser Excitation
Gao Yi, Young-Jin Kim
Nanyang Technological University

P1-095 Q-switched-like Soliton Bunches In A Partially Mode-locked Fiber Laser By A Microfiber-based Graphene Saturable Absorber
Zhi Wang, Yange Liu, Ruijing He, Guangdou Wang
Nankai University

P1-096 Wavefront Correction Near The Focus Of Pettawatt Laser System For High-field Science Experiment
Li Jinfeng, Yu Lianghong, Liang Xiaoyan, Li Ruxin, Xu Zhizhan
Shanghai Institute of Optics and Fine Mechanics, CAS

P1-097 Accurate Measurements Of Electro-optic Coefficients Of MgO-doped And Undoped Congruent And Stoichiometric LiNbO3
Kazuki Akiyama, Shota Nakano, Ichiro Shoji
Chuo University

P1-098 A Weak Femtosecond Pulse Seed On CW Pumped Supercontinuum Generation
Peng Lu, Qian Li
Pecking University
P1-099 Generation Of Octave-spanning Intense Supercontinuum From Yb:doped Solidstate Lasers In Multiple Thin Plates
Chih-Hsuan Lu, Wei-Hsin Wu, Shiang-He Kuo, Yi-Hsun Tseng, Chia-Lun Tsai, Shang-Da Yang, Ming-Chang Chen, A. H. Kung
National Tsing Hua University

P1-100 Secure Chaos Communication With Semiconductor Lasers Subject To Sinusoidal Phase-Modulated Optical Feedback
Jiang Ning, Xue Chenpeng, Zhang Jing, Yi Xingwen, Qiu Kun
University of Electronic Science and Technology of China

P1-101 All Optical Modulators Exceeding 100 THz Bandwidth Via Cohorent Absorption Of Metamaterial
Venkatram Nalla, Artemios Karvounis, João Valente, Handong Sun, Nikolay I. Zheludev
Nanyang Technological University

P1-102 Dissipative Peregrine Soliton In Fiber Lasers
Dingyuan Tang
Nanyang Technological University

P1-103 Characterization Of Optically-controlled Terahertz Modulation Based On A Hybrid Device Of Perovskite And Silicon
Kyu-Sup Lee, Rira Kang, Byungwoo Son, Dong-Yu Kim, Ei Yu Nan, Do-Kyeong Ko
Gwangju Institute of Science and Technology

P1-104 Improvement Of Optical Modulation Depth Tolerance In Analog RoF By Employing CAZAC And Nonlinearity Compensation
Longsheng Li, Meihua Bi, Weisheng Hu, Weikang Jia, Xin Miao
Shanghai Jiao Tong University

P1-105 Static And Dynamic Magnetic Properties Of Two-dimensional Ni\textsubscript{80}Fe\textsubscript{20} Annular Antidot Lattices
Nikita Porwal, Anjan Barman, Prasanta Datta
Indian Institute of Technology Kharagpur

P1-106 Double Mueller Matrix Measurement Of KTP Crystal
Chitra Shaji, Sruthil Lal S B, Alok Sharan
Pondicherry University

P1-107 Efficient Degenerate Third-order Difference Frequency Generation In Microfiber-ring Resonator Systems
Yunxu Sun
Shenzhen Graduate School, Harbin Institute of Technology

P1-108 Mid-Infrared Self-Similar Pulse Compression of Picosecond Pulse in a Ridge Silicon Waveguide Taper
Jian Chen, Chao Mei, Jinhui Yuan, Feng Li, Zhe Kang, Kuiru Wang, Binbin Yan, Xinzhu Sang
Beijing University of Posts and Telecommunications

P1-109 Shared And Dual Optical Parametric Generation In Non Linear Photonic Crystals Of LiTaO₃
Hocine Chikh-Touami, Régis Kremer, Lee Hsi-Jung, Lee Min Won, Peng Lung-Han, Azzedine Boudrioua
Université Paris 13

P1-110 Diffractive Imaging Of Molecular Orbital
Chunyang Zhai, Xiaosong Zhu, Pengfei Lan, Feng Wang, Lixin He, Wenjing Shi, Yang Li, Min Li, Qingbin Zhang, Peixiang Lu
Huazhong University of Science and Technology

P1-111 Normalized Model For Polarization Pulling In Fiber Optical Parametric Amplifiers
Shaohao Wang, Qiqi Huang, P. K. A. Wai
Fuzhou University

P1-112 Difference In Distribution Of Eu Ions Doped CaF₂ Single Crystal Caused By Two Types Of Grown Method By Measurement Of Multi-photon Luminescence
Miho Tanaka, Shingo Ono, Akihiro Yamaji, Shusuke Kurosawa, Akira Yoshikawa
Nagoya Institute of Technology

P1-113 Enhancement Of SHG In The Al Covered ZnS Nanobelts
Hongbo Hu, Kai Wang, Bing Wang, Peixiang Lu
Huazhong University of Science and Technology

P1-114 Simulation Of All-Optical NOR Gate Using Single Quantum-Dot SOA And Optical Filter
Kosuke Komatsu, Gou Hosoya, Hiroyuki Yashima
Tokyo University of Science

P1-115 Modeling Of Period One Oscillations In Optically Injected Quantum Cascade Lasers
Cheng Wang
ShanghaiTech University

P1-116 Giant AC Stark Effect In A Strongly-Coupled Light-Matter System
Dmitry Panna, Nadav Landau, Shlomi Bouscher, Leonid Rybak, Shai Tsesses, Guy Adler, Sebastian Brodbeck, Christian Schneider, Sven Höfling, Alex Hayat
Technion - Israel Institute of Technology

P1-117 Stability Analysis And Bandwidth Estimation Of Free-Carrier Driven Kerr Frequency-Comb
Raktim Haldar, Partha Mondal, Vishwatosh Mishra, Shailendra K. Varshney
Indian Institute of Technology Kharagpur

P1-118 Improvement Of Signal-to-noise Ratio Of The Beat Note By Cascading An Yb-doped Fiber Amplifier In An Er-fiber Comb
Huan Liu, Shiying Cao
Tsinghua University

P1-119 Self - Dissimilarity Analysis For Characterizing Complexity In The Vicinity Of Mode Locking For Different Pulsing Regimes In Fiber Oscillator
Tesfay Teamir, Ghaith Makey, Fatih Ömer Ilday
Bilkent University

P1-120 Polytetrafluoroethylene Top-Covered Hs/(Ge/ZnS)^3/Ge Structure For Visible-Infrared Spectral Selection
Dong Qi, Xian Wang, Yongzhi Cheng, Bowen Li, Rongzhou Gong
Huazhong University of Science and Technology

P1-121 Impact Of Band Structure Of Ohmic Contact Layers On The Response Feature Of P-i-n Very Long Wavelength Type II InAs/GaSb Superlattice Photodetector
Jianliang Huang
Institute of semiconductors, Chinese Academy of Sciences

P1-122 Active Focal Control Of Graphene-metal Metasurface Lenses For Infrared Frequencies
Bin Hu, Zongduo Huang, Zi Wang, Juan Liu
Beijing Institute of Technology

P1-123 Mid-infrared Supercontinuum Generation In A Highly Birefringent As_2Se_3-based Photonic Quasi-crystal Fiber
Shuqin Lou, Tongtong Zhao, Xin Wang
Beijing Jiaotong University

P1-124 A Ring-mirrors-integrated Silicon Photonics Arrayed Waveguide Grating
Qing Fang, Juan Hu, Zhiqun Zhang, Hua Chen, Lei Zhao, Hequn Chu, Xianbo Pan
Kunming University of Science and Technology

P1-125 Mid-IR Waveguides In SOI Platform
Usman Younis, Xianshu Luo, Bowei Dong, Huang Li, Eu-Jin Lim, Guo-Qiang Lo, Andrew A. Bettiol, Kah-Wee Ang
National University of Singapore

P1-126 Tunable Dual-Band And Wide-Angle Perfect Absorber Based On Graphene Metamaterial
Xiao Li, Honghao Yu, Ye Zhang, Junjie Mei, Jianjun Lai, Dejia Meng, Changhong Chen
Active Hybrid-material Longwave Infrared Absorber Of Graphene Ribbon Array
Honghao Yu, Xiao Li, Ye Zhang, Junjie Mei, Jianjun Lai, Changhong Chen
Huazhong University of Science and Technology

Non-invasive Blood Glucose Measurement Scheme Based On Near-infrared Spectroscopy
Shulei Wang, Xueguang Yuan, Yangan Zhang
Beijing university of posts and telecommunications

High Resolution Mid-Infrared Photo-thermal Microscopy With Solid Immersion Lens
Eun Seong Lee, Jae Yong Lee
Korea Research Institute of Standards and Science

Extension Of Germanium-on-Insulator Optical Absorption Edge Using CMOS-Compatible Silicon Nitride Stressor
Yiding Lin, Danhao Ma, Jurgen Michel, Chuan Seng Tan
Nanyang Technological University

Low Loss Silicon-on-Insulator Waveguide For Mid-Infrared Photonics
Bowei Dong, Xianshu Luo, Hong Wang, Chengkuo Lee, Guo-Qiang Lo
National University of Singapore

Polarization-Dependent Cut Wire In Mid-Infrared Metamaterial Absorber
Nan Chen, Dihan Hasan, Prakash Pitchappa, Massimo Alioto, Navab Singh, Xianshu Luo, Guo-Qiang Lo, Chengkuo Lee
National University of Singapore

Three-fold Efficiency Improvement Via Temporal And Spatial Pulse Shaping In 3µm OPCPA
Xiao Zou, Houkun Liang, Shizhen Qu, Kun Liu, Qijie Wang, Ying Zhang
Nanyang technological university
P1-134 High-resolution Chalcogenide Fiber Bundles For Thermal Image Delivery
Bin Zhang, Chengcheng Zhai, Sisheng Qi, Yaocheng Li, Yi Yu, Barry Luther-Davies, Zhiyong Yang
Jiangsu Normal University

P1-135 Stable Broadband Supercontinuum Generation Extending To >2000 nm In Dielectrics Pumped By 1μm Picosecond Pulses For CEP-stable OPCPA
Kun Liu, Shizhen Qu, Xiao Zou, Houkun Liang, Qijie Wang, Ying Zhang
Singapore Institute of Manufacturing Technology

P1-136 High Energy, High Repetition Rate, 300μJ, 3 μm OPCPA System
Shizhen Qu, Xiao Zou, Kun Liu, Qijie Wang, Houkun Liang, Ying Zhang
Nanyang Technology University

P1-137 Electro-Thermal Evolution Of Hotspots And Intrinsic Detection Efficiency Of Superconducting Nanowire Single-Photon Detectors
Chao Gu, Yuhao Cheng, Xiaolong Hu
Tianjin University

P1-138 Near-infrared PbSe Colloidal Quantum Dot Photodetectors
Mariyappan Thambidurai, Youngjin Jang, Gao Yuan, Xiaonan Hu, Xuechao Yu, Qijie Wang, Lifshitz Efrat, Hilmi Volkan Demir, Cuong Dang
Nanyang Technological University

P1-139 Electrically Tuned Dielectric Property Of Barium Titanate By THz Spectroscopy
Jie Ji, Jingcheng Zhang, Furi Ling, Siyan Zhou, Songjie Shi, Jianquan Yao
Huazhong University of Science and technology

P1-140 Photoluminescence Of Tm-doped Ta₂O₅ Waveguides
Amy Sen Kay Tong, Colin J. Mitchell, Jacob I. Mackenzie, James S. Wilkinson
University of Southampton
P1-141 Preliminary Studies Of Simultaneous RGB And NIR Fluorescence Imaging Of Ex Vivo Human Breast Tissue Using Indocyanine Green (ICG)
Elham Nabavi, Ji Qi, Maria Leiloglou, George Hanna, Daniel R. Leff, Daniel S. Elson
Imperial College London

P1-142 Engineering Plasmon Coupling In Graphene Using Modulated Nanoribbons
Prarthana Gowda, Tim Poole, Isaac John Luxmoore, Geoffrey Nash
University of Exeter

P1-143 Measurement Of The Threshold Of Stimulated Brillouin Scattering With Super-Gaussian-shaped Laser Pulses
Xuehua Zhu, Zhiwei Lu, and Yulei Wang
Anhui Polytechnic University

P1-144 Transformation Of Medical Grade Titanium And Titanium Alloy During High Power Fiber Laser Machining
Vinod Parmar, Dinesh Kalyanasundaram, G. Vijaya Prakash
Indian Institute of Technology Delhi

P1-145 Mode Instability In A Yb-doped D-shape Cladding Fiber
Nan Xia, Seongwoo Yoo
Nanyang Technological University

P1-146 Efficient 1.5 µm Raman Generation In Methane-filled Negative Curvature Hollow-core Fiber
Yubin Chen, Zefeng Wang, Xiaoming Xi, Qisheng Lu
College of Optoelectronic Science and Engineering, National University of Defense Technology

P1-147 Optical Design Of Dynamic Focusing System For Laser Galvanometric Scanning
Yue Xu, Xiao Zhu, Sihai Chen, Ayu Luo, Wei Chen
Shenzhen Institutes of Advanced Technology, Chinese Academy of Science
P1-148 High Energy Of A b-cut Tm, Ho:YAlO3 Laser
Linjun Li, Xining Yang
Heilongjiang Institute of Technology

P1-149 Tunable Photonic Crystal Distributed Bragg Reflector Fiber Laser With Superimposed FBGs
Peng Jiang, Weihong Bi, Yuefeng Qi, Guangwei Fu, Xinghu Fu, Wa Jin, Neng Zhao
Yanshan University

P1-150 Self-assembled Periodic Nanostructures Embedded In Wide Bandgap Semiconductor
Yasuhiro Shimotsuma, Yuta Nakanishi, Masaaki Sakakura, Kiyotaka Miura
Kyoto University

P1-151 Microwave Assisted Laser-induced Breakdown Spectroscopy Restrain Self-absorption Effect
Peiyuan Gao
Huazhong University of Science and Technology

P1-152 Study On IR Laser Machining Of Carbon Fiber Reinforced Plastics (CFRP)
ChangKyoo Park, Induck Park, Eunjoon Chun, Kwangdeok Choi, Kwanghyeon Lee, Lee Sujin, Suh Jeong
Korea Institute of Machinery and Materials

P1-153 Effect Of Laser Surface Texturing On Wear Resistance Of Ni-Cr Alloy
Libin Lu, Panfeng Zhao, Yingchun Guan
Beihang University

P1-154 Prediction Of The Shape And Volume Of Metal Surfaces Ablated By Femtosecond Laser
Vahan Malkhasyan, Mohamed Assoul, Guy Monteil
University of Bourgogne Franche-Comté

P1-155 Ablation Property Irraditated By Quasi-continuous-wave Laser And Continues-Wave Laser
Xiaojun Wang
Technical Institute of Physics and Chemistry, Chinese Academic of Science

P1-156 Laser Writing Of Localized Color Centers In Hexagonal Boron Nitrides Monolayers
Songyan Hou, Muhammad Danang Birowosuto, Saleem Umar, Maurice Ange Anicet, Roland Yingjie Tay, Philippe Coquet, Tay Beng Kang, Hong Wang, Edwin Hang Tong Teo
CINTRA UMI CNRS/NTU/THALES

P1-157 Femtosecond Laser Cleaning For Aerospace Manufacturing And Remanufacturing
Niroj Maharjan, Yu Zhou, Yingchun Guan, Wei Zhou
Nanyang Technological University

P1-158 Study Of Stress Relaxation In UV Regenerated Fiber Bragg Gratings
Matthieu Lancry, Kevin Cook, Bertrand Poumellec, John Canning
University Paris Saclay

P1-159 Ultra-low Velocity Measurement Via Weak-Value Amplification
Senzhi Fang, Chuming Lin, Qinglin Wu
Central China Normal University

P1-160 Near-UV-Enhanced Sensitivity Of Plasmonic Nanotextured Device For Volatile Organic Sensing
Yusheng Lin
Sun Yat-Sen University

Poster Session 2
Time: 3:45pm – 5:15pm
Date: 2 Aug 2017

P2-001 Pushing Detection Wavelength Toward 1µm Using Antimonide-based Type-II Superlattices
Yanhuang Zhang, Wenquan Ma, Jianliang Huang, Yulian Cao, Ke Liu, Wenjun Huang, Chengcheng Zhao
Institute of Semiconductors, Chinese Academy of Sciences
P2-002 Fiber Refractive Index Sensor Based on Surface Plasmon Resonance with No-Core Fiber
Zhewen Ding, Chunliu Zhao, Tingting Lang, Jiajun Jin
China Jiliang University

P2-003 Polarization-independent SBS-based Narrowband Filters For High Resolution Optical Spectrum Measurement
Chen Xing, Changjian Ke, Zhen Guo, Yibo Zhong, Haoyu Wang, Deming Liu
Huazhong University of Science and Technology

P2-004 Hydroperoxide Concentration Measurement With Polarized/unpolarized Spectrometer
Cheng-Chih Hsu, Yu-Jen Chen, Te-Yu Chiang, Hsin-I Yeh, Yung-Fang Yang
Yuan Ze University

P2-005 Super-fast Optical Hygrometer Probe Based On Polyelectrolyte-coated Fiber Taper
George Y. Chen, Xuan Wu, Tanya M. Monro, David G. Lancaster, Li Yu, Xiaokong Liu, Haolan Xu
University of South Australia

P2-006 A Photonic-assisted Compressive Sampling System Using A Directly-modulated Laser
Pei Li, Minghua Chen, Qiang Guo, Hongwei Chen, Sigang Yang, Shizhong Xie
Tsinghua University

P2-007 Radial Position Measurement Of Defects Within Optical Fibers Using Skew Rays Interrogation
George Y. Chen, Tanya M. Monro, David G. Lancaster
University of South Australia

P2-008 Mid-infrared Molecular Sensing With Tunable Graphene Plasmons
Tingting Wu, Yu Luo, Lei Wei
Nanyang Technological University

P2-009 Real Part Of Dielectric Constant Of A Subwavelength-in-diameter Silver Pipe Is Positive In Visible Light
Fumiaki Tajima, Yoshio Nishiyama
Yokohama National University

P2-010 MOEMS Accelerometer Based On Grating Coupler Integrated With Embossed Diaphragm
Malayappan Balasubramanian, Shreyas Nandi, Shirin Fathima, Aparna S, Sai Srujana Vuppala, U Poornalakshmi, Prasant Kumar Pattnaik
BITS-Pilani, Hyderabad Campus

Atsuki Ishiguro, Amaka Tanaka, Takahiro Ohmae, Ryoichi Mizutani, Tetsuya Matsuyama, Kenji Wada
Osaka Prefecture University

P2-012 Discrimination Of Absorption Variations In Two Layered Structure By Using Angular Distribution Of Diffuse Reflected Light
Masaharu Hyodo, Kensuke Miyahira, Osamu Matoba, Satoru Miyauchi, Shingo Saito, Akira Kawakami
Kanazawa University

P2-013 Photonic Time-Stretch Optical Coherence Tomography With Data Compression And Improved Resolution
Chaitanya K Mididoddi, Guoqing Wang, Lei Su, Chao Wang
University of Kent

P2-014 A Novel Method For Calculating The Response Of A Quadrant Detector Using Convolution
Jadze Princeton C. Narag, Nathaniel P. Hermosa
University of the Philippines

P2-015 Photon Number And Timing Resolution Of A Near-infrared Continuous-wave Source With A Transition Edge Sensor
Jianwei Lee, Lijiong Shen, Brenda Chng, Alessandro Cerè, Christian Kurtsiefer
National University of Singapore
P2-016 Sensoric And Data Applications In National Research And Educational Networks
Jan Radil, Ondrej Havlis, Petr Muster, Pavel Skoda, Josef Vojtech
Czech Educational and Scientific NETwork

P2-017 Fabricating Elastomerically Aspheric Lens Using 3D Printing Technique
Ratthesart Amarit, Atcha Kopwitthaya
National Electronics and Computer Technology Center

P2-018 Suppressing The Relative Linewidth Of A Dual-comb System Without Using Ultra-stable CW Lasers
Zebin Zhu, Kai Ni, Qian Zhou, Guanhao Wu
Tsinghua University

P2-019 Calculating The Effective Center Wavelength For Heterodyne Interferometry Of Optical Frequency Combs
Shilin Xiong, Zaihua Yang, Lei Liao, Guanhao Wu
Tsinghua University

P2-020 Highly Sensitive On-chip Eight Channel Sensing Of Ultra-compact Parallel Integrated Photonic Crystal Cavities Based On Silicon-on-insulator
Lin Zhang, Zhongyuan Fu, Fujun Sun, Chao Wang, Huiping Tian
Beijing University of Posts and Telecommunications

P2-021 A Reflected Probe Method For Detecting The Ultra-weak Magnetic Field Using The Atomic SERF Magnetometer
Hongwei Cai, Ming Ding, Yang Li, Xuejing Liu, Weiren Wu
Beihang University

P2-022 Brillouin Gain Spectrum Shape Manipulation For Enlarging Measurement Range Of Dynamic Strain Using Slope-assisted BOTDA
Guangyao Yang, Xinyu Fan, Bin Wang, Zuyuan He
Shanghai Jiao Tong University
P2-023 Birefringence Variation Independent Fiber-Optic Current Sensor Based On Polarization Diversity And Real-Time SOP Measurement
Yinping Liu, Lin Ma, Jiangbing Du, Zuyuan He
Shanghai Jiao Tong University

P2-024 Upconversion Nanoparticle-based Background-free Sensor for Ultrasensitive Detection of Mercury Ions
Shuai Ruan, Wei Ren, Tim Zhao, Victoria Peddie, Dayong Jin, Heike Ebendorff-Heidepriem, Yinlan Ruan
University of Adelaide

P2-025 Fundamental Characteristics Of Double-Reflection Waveguide-Type Kretschmann-Structure Surface Plasmon Resonance (SPR) Sensor For High-Sensitivity And Wide-Measurable Range
Hiroki Tansho, Shota Konuma, Yuichi Matsushima, Hiroshi Ishikawa, Katsuyuki Utaka
Waseda University

P2-026 Measuring Two-dimension Scattering Pattern Of Marine Submicron Particles
Wanyan Wang, Kecheng Yang, Wei Li, Xia Min, Man Luo1, Wenping Guo
Huazhong University of Science and Technology

P2-027 The Analysis And Optimization Of The Nano-pattern By RCWA Simulation
Jin Seo, Jung Gun Nam
SamsungDisplay

P2-028 Quantum Enhancement Of Signal-to-noise Ratio With Heralded Noiseless Linear Amplifier
Jie Zhao, Josephine Dias, Jingyan Haw, Mark Bradshaw, Remi Blandino, Thomas Symul, Timothy Ralph, Ping Koy Lam, Syed Assad
Australian National University

P2-029 Absorption Line Measurement Of $^{12}{\text{C}}^{18}{\text{O}}_2$ Using A Broadly Tunable DFB Laser Diode Array
Ryutaro Nagai, Kazuyoku Tel, Shigeru Yamaguchi
Tokai University

P2-030 Overcoming The Near-Infra-Red Spectral Range Limit With Fabry-Perot Silicon Microcavity Enabled By Slotted Micromirrors
Mazen Erfan, Yasser Sabry, Frédéric Marty, Diaa Khalil, Yamin Leprince-Wang, Tarik Bourouina
Université Paris-Est

P2-031 Controlling Laser Power Irradiation Of Pulsed Laser Deposition For Fabricating High Resistivity NdF₃ Thin Film
Ryo Yamazaki, Kentaro Suzuki, Shoei Otani, Shingo Ono
Nagoya Institute of Technology

P2-032 Phase Shifting Interferometer Of A Femtosecond Laser For Optical Surface Measurement
Yue Wang, Shilin Xiong, Guanhao Wu
Tsinghua University

P2-033 Brillouin Gain/Loss Spectrum Distortions in Single-Tone Based BOTDA Sensors
Chuanzong Xue, Sheng Wang, Zhisheng Yang, Wenqiao Lin, Xiaobin Hong, Jian Wu
Beijing University of Posts and Telecommunications

P2-034 The High Sensitive Glycoprotein Detection With Boronic Acid Sandwich Assay By Fiber-optic SPR Sensors
Siyu Qian, Huizhen Yuan, Yang Zhang, Wei Peng
Dalian University of Technology

P2-035 Overview Of High Temperature Fibre Bragg Gratings
University of Technology Sydney

P2-036 Surface Characterization Of A Micro-patterned Sample Using Simultaneous Dual-wavelength Interferometry With Compensation Of Chromatic Aberration
Dahi Ghareab Abdelsalam Ibrahim
National Institute of Standards

P2-037 Quadrature Phase-shifting Interferometry For Surface Micro-topography Measurement
Dahi Ghareab Abdelsalam Ibrahim
National Institute of Standards

P2-038 Quantum Tomography of a Nonlinear Photonic Circuit by Classical Sum-frequency Generation Measurements
Griffith University

P2-039 Adaptive Quantum Receiver For PPM And Multi-pulse PPM Weak Signal Discrimination
Tian Chen, Bing Zhu
University of Science and Technology of China

P2-040 Optimal Detection Of Broadband Squeezed Vacuum Pulses Generated By Nonlinear Fiber Optics
Masaya Tomita, Aruto Hosaka, Tsubasa Otsuka, Fumihiko Kannari
Keio University

P2-041 Characterization of Frequency-Domain Photon-Number Statistics of Supercontinuum Pulses
Aruto Hosaka, Masaya Tomita, Tsubasa Otsuka, Fumihiko Kannari
Keio University

P2-042 Design Of Multistage Quantum Optical Pulse Gate And Its Application To Quantum Simulator
Tsubasa Otsuka, Aruto Hosaka, Masaya Tomita, Fumihiko Kannari
Keio University

P2-043 High Time-Resolved Emission Lifetime Measurement Of Silicon Vacancy In Diamond
Youying Rong, Jianhui Ma, Botao Wu, Haifeng Pan, E Wu
Amplitude-modulated Magnetization Dynamics With Ultracold Two-electron Atoms In Optical Lattices
Shaobing Zhu, Jun Qian
Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

Optical Trap Of A Nanoparticle In Ultra-high Vacuum Towards A Mixture Of A Nanoparticle And A Laser Cooled Gas
Daisuke Akamatsu
National Metrology Institute of Japan

Wavelength Tunable Source Of Correlated Photon Pairs Based On Photonic Crystal Fiber
Jie Su, Liang Cui, Xiaoying Li
Tianjin University

Quantum Enhanced Joint Measurement Of Two Conjugate Observables With An SU(1,1) Interferometer
Yuhong Liu, Jiamin Li, Nan Huo, Xiaoying Li, Z. Y. Ou
Tianjin University

Development Of An 8-branch Optical Frequency Comb For Laser Frequency Stabilization
Yusuke Hisai, Daisuke Akamatsu, Takumi Kobayashi, Sho Okubo, Hajime Inaba, Feng-Lei Hong, Kazumoto Hosaka
Yokohama National University

Quantum Interference Of The Non-degenerate Photon Pairs In Silicon Nanowire
Jie Shao, Yu Yu, Yi Wang
Huazhong University of Science and Technology

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Pondicherry University

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Jun Rong Ong, Thomas Ang, Gandhi Alagappan, Chu Hong Son, Soon Thor Lim, Ching Eng Png
Institute of High Performance Computing, A*STAR

P2-053 Single-photon Buffer At A Telecommunication Wavelength Using A Fiber-optic Switch
Akiko Tada, Naoto Namekata, Shuichiro Inoue
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P2-054 Quantum Secure Authentication System Experiment Using Adaptive Optics
Masahito Oya, Naoto Namekata, Jun Nishikawa, Shuichiro Inoue
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P2-055 An Inversionless Superradiance Of Polarized Atoms
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P2-056 Sub-Megahertz Linewidth Single Photon Source Suitable For Quantum Memories
Markus Rambach, Wing Yung Sarah Lau, Aleksandrina Nikolova, Till Weinhold, Andrew White
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Wei Huang, Elica Kyoseva
Singapore University of Technology and Design
P2-058 A Compact And Low Phase Noise Laser System Using Phase Modulation And A Filtering Cavity
Ki-Se Lee, Sang-Bum Lee, Sang Eon Park, Taek Yong Kwon, Jaewan Kim
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P2-059 Design Of A Compact Diode Laser System For Dualspecies Atom Interferometry With Rubidium And Potassium In Space
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P2-061 Surpassing The No-cloning Limit With A Heralded Hybrid Linear Amplifier
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Evyatar Sabag, Shlomi Bouscher, Raja Marjieh, Alex Hayat
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P2-065 Photoluminescence And Electroluminescence Properties Of GaN-based LEDs With Defective Regions At Low Excitation Levels
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P2-066 High-gain dual-band deep ultraviolet Schottky-barrier photodetector based on Au/α-Ga2O3/ZnO isotype heterostructure with avalanche multiplication
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P2-067 Integrated Photonic Platform Based On Semipolar InGaN/GaN Multiple Section Laser Diodes
Chao Shen, Changmin Lee, Tien Khee Ng, James S. Speck, Shuji Nakamura, Steven P. DenBaars, Boon S. Ooi
King Abdullah University of Science and Technology (KAUST)

P2-068 Gains And Losses In PbS Quantum Dot Solar Cells With Submicron Periodic Grating Structures
Yulan Fu, Rene Lopez
Beijing University of Technology

P2-069 Superior Wafer-scale Uniformity In A Laser Interference Lithography System Equipped With A Refractive Beam Shaper
Jia-Jin Lin, Han-Jung Chang, Ping-Chien Chang, Yung-Jr Hung
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Juntao Li, Zhenpeng Zhou, Jin Liu
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Daoliu Liu, Yonglu Hu, Bo Wang, Junfang Wu, Chao Li
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P2-073 1×7 optical splitters in a silicon photonic crystal
Xiyao Chen
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Jie Zhou, Feifei Shi, Taojie Zhou, Kebo He, Bocang Qiu, Zhaoyu Zhang
Peking University Shenzhen Graduate School

P2-075 Color Detector Based On Metal/Insulator/Metal Structure
Young Jin Lee, Seokhyeon Hong, Kihwan Moon, Soon-Hong Kwon
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P2-076 Asymmetric Electromagnetic Wave Transmitter Based On One-way Excitation Of Surface Plasmon Polaritons In Gradient Metasurface
Yonghong Ling, Lirong Huang, Tongjun Liu, Yali Sun, Jing Luan, Wei Hong, Gang Yuan
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P2-077 Perspective On Coupling Mechanism In Bilayered Self-Complementary Metamaterials
Tongjun Liu, Lirong Huang, Yonghong Ling, Yali Sun, Jing Luan, Wei Hong, Weihua Sun
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Suyeon Lee, Q-han Park
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P2-080 Non-integer Chirped Gratings In Broadband Optical Applications  
Mandana Jalali, Hamid Nadgaran  
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Boyuan Cai, Xiaocong Yuan  
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P2-082 Improved Extraordinary Transmission Of Light Through A Single Nano-slit By Exciting The Hybrid State Of Tamm And Surface Plasmon Polaritions  
Yunqing Lu, Chen Xinyi, Xu Min, Xu Ji, Wang Jin  
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P2-083 Deep Super-oscillatory Focusing With Metasurfaces  
Guanghui Yuan, Katrine Rogers, Edward T. F. Rogers, Nikolay I. Zheludev  
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Po-Wen Tang, Chao-Yi TAI  
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P2-085 Simulation And Optimization Of A Plasmonic Tip  
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P2-087 Enhanced Radiative Heat Transfer Between Grooved Metal Plates
Jin Dai, Sergey A. Dyakov, Sergey I. Bozhevolnyi, Min Yan
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Zhenzheng Wang, Qingzhong Huang, Qi Lu, Jinsong Xia
Huazhong University of Science and Technology

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Defen Guo, Yejin Zhang, Tao Chu
Institute of Semiconductors, Chinese Academy of Sciences

P2-090 Gold Circular Arc Aperture Array Deposited On A Fiber Endface For Refractive Index Sensing
Gongli Xiao, Jianqing Li, Hongyan Yang
Macau University of Science and Technology

P2-091 Silver Nanorod Arrays As A Surface Enhanced Raman Scattering Substrate For Synthetic Sweetener Detection In Mouthwash
Xunkai Duan, Yue Yao, WenWang, Lulu Qu, Caiqin Han, Yiping Zhao
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Yuhao Cheng, Chao Gu, Xiaolong Hu
Tianjin University

P2-093 Efficiency Enhancement Of Heterojunction With Intrinsic Thin-Layer Silicon Solar Cell Using Plasmonics Scattering Of Indium Nanoparticles
Han-Chung Huang, Wen-Jeng Ho, Su-Han Weng, Jheng-Jie Liu, Chen Shih-Wei, Chang-Hong Shen
P2-094 Transparent Silver Nanowire Electrodes For III-V Compound Semiconductor Solar Cells

Jiyoon Nam, Sungjin Jo

Kyungpook National University

P2-095 Dual-band Optical Filter Based On A Single Microring Resonator Embedded With Nanoholes

Zecen Zhang, Geok Ing Ng, Haodong Qiu, Xin Guo, Mohamed Sadi Rouifed, Chongyang Liu, Hong Wang

Nanyang Technological University

P2-096 Active Deflection Angle Switching Via The Phase Change Of Ge$_2$Sb$_2$Te$_5$ Nanorod Metasurface

Chulsoo Choi, Sun-Je Kim, Byoungho Lee

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P2-097 Photonic Crystal Surface Emitting Lasers With InAs/InGaAs/GaAs Quantum Dots

Tzu-Shan Chen, Zong-Lin Lee, Ming-Yang Hsu, Gray Lin, Sheng-Di Lin

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P2-098 Tamm Plasmon Polaritons in Photonic Quasi-crystals

Mukesh Kumar Shukla, Partha Sona Maji, Ritwick Das

National Institute of Science Education and Research, India

P2-099 Sub-Wavelength Grating Slot Waveguides In SOI For Highly-Sensitive Ring Resonators

Krishna Twayana, Mutasem Odeh, Paulo Moreira, Marcus S. Dahlem

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P2-100 Integrated Silicon Hollow Core Cavities For Light Matter Interactions

Weiwei Zhang, Samuel Serna, Xavier Le Roux, Laurent Vivien, Eric Cassan

Université Paris-Saclay
P2-101 Photonic Crystal Cavity Modes Enhanced Carbon Nanotube Light Emission
Weiwei Zhang, Elena Durán-Valdeiglesias, Samuel Serna, Carlos Alonso-Ramos, Xavier Le Roux, Arianna Filoramo, Laurent Vivien, Eric Cassan
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Parvinder Kaur, M. R. Shenoy
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P2-103 Fabrication Of The Buried Grating
Quan Liu, Jianhong Wu, Peiliang Guo
Soochow University

P2-104 100-m Field Trial For 5G Wireless Backhaul Based On Circular (7, 1) 8-QAM Modulated Outdoor Visible Light Communication
Jiaqi Zhao, Mengjie Zhang, Shangyu Liang, Jin Ding, Fumin Wang, Xingyu Lu, Can Wang, Nan Chi
Fudan University

P2-105 Dual-Polarization OFDM/OQAM-PON With Efficient Channel Equalization Methods
Bangjiang Lin, Xuan Tang, Yiwei Li, Shihao Zhang, Zabih Ghassemlooy
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P2-106 25Gbps Two-Dimensional Trellis Coded PAM4 TDM-PON Transmission Based On 10G Optics
Yan Fu, Da Feng, Meihua Bi, Haiyun Xin, Kuo Zhang, Mingxia Zhang, Hao He, Weisheng Hu
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P2-107 Resource Allocation In Software-Defined Optical Networks Secured By Quantum Key Distribution
Yuan Cao, Yongli Zhao, Xiaosong Yu, Hua Wang, Chuan Liu, Binglin Li, Jie Zhang
Beijing University of Posts and Telecommunications
P2-108 Micro Edge Cloud Architecture with Elastic Optical Network for Resource Virtualization in 5G
Linkuan He, Hui Yang, Yongli Zhao, Wei Bai, Ao Yu, Hongyun Xiao, Jie Zhang
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P2-109 Accurate And Simple Method To Predict And Monitor Performance Of Coherent Optical Transceiver
Qiang Wang, Massimiliano Salsi, Andre Vovan, Jon Anderson
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P2-110 Experimental Demonstration Of Bidirectional IDMA For Visible Light Communication
Weiping Ye, Jian Chen, Bangjiang Lin, Xuan Tang, Zabih Ghassemlooy
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P2-111 Improving The Survivability Of Elastic Optical Datacenter Networks For Cloud Services With Joint Spectrum And Storage Resource Backup
Xin Li, Bingli Guo, Shan Yin, Shanguo Huang, Xiaojian Zhang, Pengfei Yu, Peng Wu
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P2-112 Optical Steganography Oriented Routing And Resource Allocation Approach For Stealth Services In Optical Transport Networks
Ying Tang, Xin Li, Bingli Guo, Shanguo Huang, Xiaojian Zhang, Pengfei Yu, Peng Wu
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P2-113 An Optical Fiber Transport System Based on a Novel Bidirectional OADM
Ching-Hung Chang, Dong-Yi Lu, Tsung-Ying Yang, Zih-Hao Fu, Qing-Quan Liu, Zhi-Ming Zhu
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P2-114 A Two-stage Energy-saving Scheme Based On Downstream And Upstream Matching For Passive Optical Network
Yike Yu, Hao He, Wei Wang, Weisheng Hu
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P2-115 A Novel Method For PAM-4 Signal Quality Estimation Using Asynchronous Eye Diagram Reconstruction
Shangyi Lin, Hen-Wai Tsao, San-Liang Lee
National Taiwan University

P2-116 A Universal Pre-Compensation Method For OFDM-based Analog Fiber-wireless Fronthaul System
Weikang Jia, Meihua Bi, Xin Miao, Weisheng Hu
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P2-117 Experimental Demonstration Of MCF Enabled Bidirectional Colorless CAP-PON System With Wavelength Reuse Technique
Jiale He, Lei Deng, Borui Li, Ming Tang, Songnian Fu, Deming Liu, Perry Ping Shum
Huazhong University of Sci. & Tech

P2-118 Suppression Of Raman Noise In Coexistence For A Quantum Channel With Classical Channels
Yong-Jun Jeong, Chang-Hee Lee
Korea Advanced Institute of Science and Technology

P2-119 Probability-based Clipping-induced 3-bit Resolution Reductions Of Full Parallel 128-point FFTs For Coherent Optical OFDM Receivers
Weilong Wang, Junjie Zhang, Junjie Peng, Yaqian Tian, Youxiang Qin, Qianwu Zhang
Shanghai University

P2-120 A Cost-effective And Concurrent All-optical VPN In Digital Filter Multiple Access PON Systems
Xiaoling Zhang, Chongfu Zhang, Chen Chen, Wei Jin, Kun Qiu
University of Electronic Science and Technology of China

P2-121 Investigation On Adaptive Equalization Techniques For 10G-Class Optics Based 100G-PON System
Junqi Xia, Tingting Xu, Zhengxuan Li, Yingchun Li, Qianwu Zhang, Sujuan Huang, Min Wang
Shanghai University
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Xin Miao, Meihua Bi, Yan Fu, Weisheng Hu
Shanghai Jiao Tong University

P2-123 White Light Phosphor-based Blue Laser Diode Illumination And Communication Using Bit-Loading OFDM

Liang-Yu Wei, Chin-Wei Hsu, Guan-Hong Chen, Chien-Hung Ye, Calvin Chun-Kit Chan, Chi-Wai Chow
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P2-124 Machine Learning For Intrusion Detection In Dynamic Optical Networks

Yongli Zhao, Haoran Chen, Chunhui Wang, Xiaosong Yu, Jiwen Lian, Hongfa Li, Yi Lin, Jie Zhang
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P2-125 Time Transfer System Based On Femtosecond Laser

Huan Zhao, Nuanrang Wang, Shengkang Zhang, Tengfei Wu, Zhenyu Zhu, Fan Shi, Hongbo Wang, Xueyun Wang
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P2-126 Analysis On Dynamic Characteristics Of Reflective Semiconductor Optical Amplifier By Direct Modulation For OFDM-PON Application

Yueting Xu, Rujian Lin, Yingxiong Song, Qianwu Zhang
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P2-127 Systematic Evaluation Of CPRI Signal Quality Under Superimposed AMCC Signal

Goji Nakagawa, Kyosuke Sone, Setsuo Yoshida, Shoichiro Oda, Motoyuki Takizawa, Yoshio Hirose, Takeshi Hoshida
Fujitsu Limited

P2-128 Performance Enhancement Of Bidirectional TWDM-PON By Rayleigh Backscattering Mitigation

Ibrahim Elewah, Martina N. Wadie, Moustafa H. Aly
American College of the Middle East

P2-129 A Joint Fairness-aware And Fragmentation-reduction Spectrum Allocation Scheme In Elastic Optical Networks
Hongzhou Chen, Hui Yang, Bin Luo, Lianshan Yan
Southwest Jiaotong University

P2-130 Sparse Volterra Model Based On Single Side-Band Optical NPAM-4 Direct-Detection System
Hao Ying, Mingyue Zhu, Jing Zhang, Xingwen Yi, Kun Qiu
University of Electronic Science and Technology of China

P2-131 Experimental Evaluation Of Underwater Wireless Optical Transmission Link Employing 4-Fold Orbital Angular Momentum (OAM) Multicasting
Yifan Zhao, Jian Wang
Huazhong University of Science and Technology

P2-132 Demonstration Of Underwater Wireless Optical Communication Using Directly Modulated Green Laser And Different Modes Subjected To Bubbles
Yifan Zhao, Jian Wang
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Qiulin Zhang, Bofang Zheng, Chester Shu
The Chinese University of Hong Kong

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Zhizhen Zhong, Nan Hua, Zhu Liu, Wenjing Li, Yanhe Li, Xiaoping Zheng
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P2-135 Effect Of Crosstalk On Component Savings In Multi-core Fiber Networks
Md Nooruzzaman, Toshio Morioka
Technical University of Denmark

P2-136 Nonamplified 100Gbps Doubly Differential QPSK Optical Signal Transmission Over 80 Km SSMF
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Tingting Zhang, Christian Sanchez, Abdallah Ali, Andrew Ellis
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P2-137 Power Consumption With Distance-Adaptive Load Balancing In Flexible Bandwidth Optical
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Soochow University

P2-138 Demonstration Of Extreme High-Order Spatial Modulations With Up To 1024 Bits Per Symbol
For Visible-Light Communication Links Based On Ultra-High-Density Spatial Array Polarization
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P2-139 Transmission Of 56-Gb/s PAM-4 Signal Over 2.3 km Of MMF Using Mode-Field Matched
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Korea Advanced Institute of Science and Technology

P2-140 28-Gbps VCSEL-based Optical Access Network With >14-dB Power Budget Using 10G-Class
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Korea Advanced Institute of Science and Technology

P2-141 Contention-free Optical Data Switching Using Synchronized Time Slot Frames In AWGR-based
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Bup-Joong Kim, Yung-Wook Ra, Ji-Wook Youn, Ji-Wook Youn
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P2-142 Hybrid Visible Light Communications (VLC) And PLC System
Liwei Yang, Junwei Li, Junning Zhang
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P2-143 Performance Evaluation Of Wavelength Path Relocation With IoT Devices In AWG-STAR Network
Yudai Tomioka, Takashi Kojima, Osanori Koyama, Hiroaki Maruyama, Takumi Niihara, Makoto Yamada
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P2-144 Experimental Demonstration Of Time-slot Coding Scheme For Multiple Access In High-speed Optical Wireless Communications With Imaging Receiver
Tian Liang, Ke Wang, Christina Lim, Elaine Wong, Tingting Song, Ampalavanapillai Nirmalathas
University of Melbourne

P2-145 Performances Of RoF-Based Mobile Fronthaul Networks For 5G Wireless System Implemented By Using DML And EML
Byunggon Kim, Sunghyun Bae, Hoon Kim, Yun Chur Chung
Korea Advanced Institute of Science and Technology

P2-146 RZ-DPSK Optical Modulation For Free Space Optical Communication By Satellites
Institut Supérieur de l’Aéronautique et de l’Espace

P2-147 Reliability Enhancement By A Joint Optimization Of Elastic Optical Path Allocation Methods
Shinsuke Fujisawa, Baku Yatabe, Hitoshi Takeshita, Takefumi Oguma, Akio Tajima
NEC Corporation

P2-148 Design And Implementation Of Photonic Frame Wrapper For Photonic Packet Switching In Data Centers
Yunjoo Kim, YongWook Ra
Electronics and Telecommunications Research Institute

P2-149 Experimental Demonstration Of Visible Light Communications With OFDM/OQAM Modulation
Bangjiang Lin, Xuan Tang, Yiwei Li, Shihao Zhang, Zabih Ghassemlooy
Haixi Institutes, Chinese Academy of Sciences

P2-150 Fabrication Of A LP01 To LP02 Mode Converter Embedded In Bulk Glass Using Femtosecond Direct Inscription
Hakim Mellah, Jean-Philippe Bérubé, Réal Vallée, Xiupu Zhang
Concordia University

P2-151 Single Subcarrier Gold Sequences Modulated Timing Synchronization For Upstream OFDMPON
Xizhen Peng, Acai Tan, Tingting Xu, Linghuan Liang, Youxiang Qin, Yingchun Li
Shanghai University

P2-152 Linearly Interpolation-based Almost Blind Phase Noise Suppression Method For CO-OFDM Systems
Zhaopeng Xu, Chuanchuan Yang, Zhongwei Tan
Peking University

P2-153 Cyclic-Spectrum Pulse Shaping For Increased Nonlinear Tolerance
Valery Rozental, Benjamin Foo, Bill Corcoran, Arthur Lowery
Monash University

P2-154 A Crosstalk Mitigation Algorithm For OFDM-Carrying OAM Multiplexed FSO Links
Tengfen Sun, Minwen Liu, Zhengxuan Li, Yingchun Li, Qianwu Zhang, Min Wang
Shanghai University

P2-155 An In-Band OSNR Monitoring Technique For PM-Nyquist-WDM Coherent System In Presence Of Fiber Nonlinearities
Peiyu Zhang, Lixia Xi, Jin Yuan, Xianfeng Tang, Xiaoguang Zhang
Beijing University of Posts and Telecommunications

P2-156 Carrier Phase Estimation For 53.6 Gbaud QPSK Signal Encoded By Low-Rate FEC

Ryosuke Matsumoto, Keisuke Matsuda, Naoki Suzuki
Mitsubishi Electric

P2-157 Unrepeated Transmission Of 28Gbaud PM-16QAM Over 420km Enabled By Digital Nonlinear Pre-compensation

Syed Muhammad Bilal, Kseniia Goroshko, Hadrien Louchet, Igor Koltchanov, Andre Richter
VPIphotonics

P2-158 Simultaneous Compensation Of Waveform Distortion Caused By Chromatic Dispersion And SPM Using A Three-layer Neural-Network

Owaki Shotaro, Nakamura Moriya
Meiji University

P2-159 High Accuracy And Non-pilot Aided Sampling Frequency Offset Estimation Algorithm In Multi-IFoF Fronthaul

Mingxia Zhang, Haiyun Xin, Meihua Bi, Longsheng Li, Weikang Jia, Hao He, Weisheng Hu
Shanghai Jiao Tong university

P2-160 Adaptive Modulation-Enabled DD-OFDM Multicore Fiber Transmission Impaired By Intercore Crosstalk

Tiago Alves, Adolfo Cartaxo, Ben Puttnam, Ruben Luís, Yoshinari Awaji, Naoya Wada
Instituto de Telecomunicações
Poster Session 3
Time: 10:15am – 11:45am
Date: 3 Aug 2017

P3-001 Multi-Wavelength Nearly Transform-Limited Gaussian Optical Pulse Generation Using Time Lens
Qiang Wang, Wei Zhang, Jian Xiong
Beijing Institute of Remote Sensing Equipment

P3-002 Non-Orthogonal Multiple Access In Visible Light Communications With Adaptive Loading
Xun Guan, Yang Hong, Chun-Kit Chan
The Chinese University of Hong Kong

P3-003 Analysis Of Nonlinear Interference Noise In Flexible Optical Networks
Stefanos Dris, Hadrien Louchet, Andre Richter
VPIphotonics

P3-004 Vector-Based Equalization Method To Mitigate Core-to-Core Q-Difference For Space-Division Multiplexing Transmission
Hidenori Takahashi, Takehiro Tsuritani
KDDI Research, Inc.

P3-005 A Modified Adaptive Least Mean Square Frequency-Domain Algorithm For Equalization Of Polarization Division Multiplexed-Mode Division Multiplexed Fiber Transmission
Shuangxi Zhang, Jianfei Liu, Xiangye Zeng, Jia Lu, Ying Wei, Mengjun Wang
Hebei University Of Technology

P3-006 Experimental Investigation On Impacts Of PAPR Reduction Schemes In OFDM-based VLC Systems
Huimin Lu, Yang Hong, Lian-Kuan Chen, Jianping Wang
University of Science and Technology Beijing
P3-007 100/150/200 Gb/s Real-Time Demonstration Of SD-FEC Employing MSSC-LDPC Codes For Flexible Coherent Transport
Kenji Ishii, Keisuke Dohi, Takafumi Fujimori, Kenya Sugihara, Yoshikuni Miyata, Soichiro Kametani, Susumu Hirano, Kazuo Kubo, Hideo Yoshida, Wataru Mastumoto, Takashi Sugihara
Mitsubishi Electric Corporation

P3-008 Effect Of Number Of Neurons Of A Neural-Network On Compensation Performance Of SPM Non-linear Waveform Distortion.
Yuta Fukumoto, Syotaro Owaki, Moriya Nakamura
Meiji University

P3-009 SPM And Phase-Noise Compensation Using A Polarization-Multiplexed And Intensity-Modulated Pilot-Carrier
Noriki Sumimoto, Ryoichiro Nakamura, Moriya Nakamura
Meiji University

P3-010 Novel Twin-SSB-SC Method Using A DP-QPSK Modulator
Shogo Kashiwagi, Ryoichiro Nakamura, Moriya Nakamura
Meiji University

P3-011 Machine-learning Detector Based On Support Vector Machine For 122-Gbps Multi-CAP Optical Communication System
Sun Lin, Du Jiangbing, Chen Guoyao, He Zuyuan, Chen Xia, T. Reed Graham
Shanghai Jiao Tong University

P3-012 Demonstration Of Extreme High-Order Spatial Modulations With Up To 1024 Bits Per Symbol For Visible-Light Communication Links Based On Ultra-High-Density Spatial Array Polarization Encoding
Yifan Zhao, Shuhui Li, Jian Wang
Huazhong University of Science and Technology

P3-013 Signal Degradation From Optical Mach-Zehnder Modulators In The Presence Of Electronic-Distortion Compensation
Xiatao Huang, Xingwen Yi, Jing Zhang
University of Electronic Science and Technology of China

P3-014 SPM And Phase-Noise Compensation Using A Time-Division-Multiplexed And Intensity Modulated Pilot-Carrier
Yuya Takanashi, Shotaro Owaki, Ryoichiro Nakamura, Moriya Nakamura
Meiji University

P3-015 Analysis Of The Influence Of Mach-Zehnder Modulator On Photodiode Nonlinearity Measurement
Lijing Li, Jinnan Zhang, Ensen Wu, Yangan Zhang, Minglun Zhang, Xueguang Yuan, Yong Zuo
Beijing University of Posts and Telecommunications

P3-016 Amplitude And Time Skew Aware Equalization Of 100-Gb/s PAM4 Signals At The Transmitter Side For VCSEL-based Short Reach Optical Interconnects
You Yue, Zhang Wenjia, Sun Lin, Du Jiangbing, He Zuyuan
Shanghai Jiao Tong University

P3-017 Mitigation Of Cross-Phase Modulation In WDM Transmission By Mid-Link Electro-Optic Phase Conjugation
Masayuki Matsumoto, Ryohei Obata
Wakayama University

P3-018 Optical Vortex Propagation In Few-mode Rectangular Polymer Waveguides
Vladimir S. Lyubopytov, Arkadi Chipouline, Urs Zywietz, Boris Chichkov, Grigori S. Sokolovskii, Nikita S. Averkiev, Grigori M. Savchenko, Vladislav E. Bougrov
Technical University of Denmark

P3-019 Stokes-Space Modulation Format Identification For Coherent Optical Receivers Utilizing Improved Hierarchical Clustering Algorithm
Shengqiang Zhu, Xiong Wu, Jie Liu, Changjian Guo
Sun Yat-Sen University
P3-020 Long Haul Quasi-Single-Mode Transmission Using Raman Amplified Hybrid FMF/SSMF Span For CO-OFDM System
Liang Xu, Jingchi Cheng, Zhenhua Feng, Qiong Wu, Ming Tang, Songnian Fu, Deming Liu, Perry Ping Shum
Huazhong University of Science and Technology

P3-021 Unscented Kalman Filters For Polarization De-multiplexing In 3D Stokes Space
Xiang Qian, Yang Yanfu, Zhang Qun, He Qianwen, Yao Yong
Harbin Institute of Technology

P3-022 Training Symbol Assisted In-band OSNR Monitoring Technique Suitable For Long Haul Raman Amplified PDM-CO-OFDM System
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Shenzhen University

P3-159 FBG-FP Spectral Denoising For High Resolution Of Quasi-static Strain Measurement Based On EMD
Peide Liu, Wenzhu Huang, Wentao Zhang, Fang Li
P3-160 Phase And Amplitude Coding Separation Based On The Injection-Locked Single-Mode VCSEL
Vladimir S. Lyubopytov, Mohammadreza Malekizandi, Arkadi Chipouline, Franko Kuppers, Tuomo Von Lerber, Matti Lassas, Tuomo Lerber
Technical University of Denmark

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P4-001 A Real-time Broadband Radio Frequency Spectrum Analyzer Based On Time-lens
Chen Liao, Zhou Haidong, Duan Yuhua, Zhou Xi, Zheng Chen, Zhang Chi, Zhang Xinliang
Huazhong University of Science and Technology

P4-002 A Noise-folding Suppression Method In Photonic Compressed Sampling
Na Gao, Xianfeng Tang, Yiqiao Feng, Bingxiang Hui Hui, Xiaoguang Zhang, Lixia Xi, Wenbo Zhang
Beijing University of Posts and Telecommunications

P4-003 Simultaneous Multichannel Canonical Logic Units and Wavelength Conversion Based on Four-Wave Mixing
Wenchang Dong, Hou Jie, Xinliang Zhang
Huazhong University of Science and Technology

P4-004 Microwave Photonic Frequency Up-Convertor with Frequency Doubling and Compensation of Chromatic-Dispersion-Induced Power Fading
Bingyu Li, Jianqiang Li, Chunjing Yin, Jian Dai, Feifei Yin, Yitang Dai, Kun Xu
Beijing University of Posts and Telecommunications

P4-005 Numerical Study On Microwave Photonic Mixers Based On Eletro-Optical Modulators
Jia Xiao, Jianqiang Li, Chunjing Yin, Yuting Fan, Feifei Yin, Yitang Dai, Kun Xu
Beijing University of Posts and Telecommunications
P4-006 Temporal Cloak for Data Restraint and Illusion
Feng Zhou, Zhao Cheng, Huaqing Qiu, Jianji Dong, Xinliang Zhang
Huazhong University of Science and Technology

P4-007 Combined Effects From Circular And Linear Quasiperiodic Structures In Optical Devices For Documents Security
Mona Mihailescu, Eugen Scarlat, Irina Alexandra Paun, Alexandru Craciun, Raluca Augusta Gabor, Cristian Andy Nicolae, Dana Cristea, Cristian Kusko, Mihaela Pelteacu, Brandus Comanescu
Politehnica University from Bucharest

P4-008 Study on Diversity Receiving Techniques in Optical Wireless Communication Systems
Shiro Ryu
Meiji University

P4-009 An Efficient Visible Light Positioning Method Using Single LED Luminaire
Zhen Yang, Junbin Fang, Tianao Lu, Zoe Lin Jiang, Zhe Chen
Jinan University

P4-010 EVM Evaluation For Wideband Radio Over Fiber System At 96GHz
Naoki Kanada, Naruto Yonemoto, Tetsuya Kawanishi
National Institute of Maritime, Port and Aviation Technology

P4-011 Evaluation Of Noise Characteristics In Graded-Index Silica And Plastic Optical Fibers For RoF Links
Azumai Ryoma, Aiba Takamitsu, Matsuura Motoharu, Wakabayashi Tomohiro
University of Electro-Communications

P4-012 A Physical-Layer Secure Coding Scheme For Visible Light Communication Based On Polar Codes
Zhen Che, Junbin Fang, Zoe Lin Jiang, Xiaolong Yu, Guikai Xi, Zhe Chen
Jinan University
P4-013 Seamless VLC And ULEAPS Fiber Transmission Employing Tapered Ag/AgI Coated Hollow Waveguide Based Beam Shaping
Yingjun Zhou, Jing Yu, Tianhang Chen, Yiwei Shi, Nan Chi, Liangming Xiong, Jie Luo
Fudan University

P4-014 Experimental Study On The Stochastic Characteristics Of 3x3 RF MIMO Channel Over Two-Mode Fiber
Rui Wu, Jianqiang Li, Yi Lei, Yuting Fan, Feifei Yin, Yitang Dai, Kun Xu, Dawei Yu
Beijing University of Posts and Telecommunications

P4-015 Characteristics Of An Ideal Location-based Zero-forcing Equalizer In Indoor Visible Light Communication Systems
Xiaodi You, Jian Chen, Changyuan Yu
Nanjing University of Posts and Telecommunications

P4-016 Compressive Sensing-Based Channel Estimation In MISO OFDM Visible Light Communication Systems
Zhe Zheng, Jinlong Yu, Zixiong Wang, Jian Chen, Changyuan Yu
Tianjin University

P4-017 Radio Over Fiber Signal Generation And Distribution And Its Application To Train Communication Network
Atsushi Kanno, Pham Tien Dat, Naokatsu Yamamoto, Tetsuya Kawanishi, Naruto Yonemoto, Vo Nguyen Quoc Bao, Tan Hanh, Le Quoc Cuong
National Institute of Information and Communications Technology Tokyo

P4-018 Modulation Format Recognition In Visible Light Communications Based On Higher Order Statistics
Hao Ren, Jinlong Yu, Zixiong Wang, Jian Chen, Changyuan Yu
Tianjin University

P4-019 PDOA Based Indoor Visible Light Positioning System Without Local Oscillators In Receiver
Sheng Zhang, Wende Zhong, Pengfei Du, Chen Chen, Dehao Wu
P4-020 Light-pump Terahertz Modulator Based On WS2
Zhiyuan Fan, Zhaoxin Geng, Xiaoqing Lv, Yue Su, Jian Liu, Lin Lu, Hongda Chen
Institute of Semiconductors, Chinese Academy of Sciences

P4-021 2.8 µm Passively Q-switched Solid State Pulse Laser Based On MoS₂/Graphene Heterojunction
Zhao Gang, Lv Xinjie, Xie Zhenda, Xu Jinlong
Nanjing University

P4-022 Selenium-Doped Black Phosphorus: Synthesis, Properties And Ultrafast Photonics Applications
Yanqi Ge, Si Chen, Yijun Xu, Zhiliang He, Yunxiang Chen, Yufeng Song, Han Zhang, Dianyuan Fan
Shenzhen university

P4-023 Preparation And Nonlinear Optical Properties Of Ultrathin MoS₂/Graphene Nanocomposites
Yifei Guo, Zhengyang Hu, Xiuli Fu, Zhijian Peng
Beijing University of Posts and Telecommunications

P4-024 A New Class Of All-Inorganic Perovskite Microplate For Lasing
Juan Du, Zhengzheng Liu, Yuxin Leng, Zhiping Hu, Xiaosheng Tang, Miao Zhou
Shanghai Institute of Optics and Fine Mechanics

P4-025 A Model for Collagen Fibrils Structure in Ovary Cancer Based on Second Harmonic Generation Microscopy
Junfang Wu, Xiaowen Sun, Chao Li
South China University of Technology

P4-026 Depth-of-focus Extended Spectral Domain Optical Coherence Tomography Using Multiple Aperture Synthesis
En Bo, Si Chen, Xinyu Liu, Linbo Liu
Nanyang Technological University
P4-027 Reliable Internal Fingerprint Detection Using Micro-Optical Coherence Tomography
Xiaojun Yu, Qiaozhou Xiong, Yuemei Luo, Nanshuo Wang, Lulu Wang, Hong Liang Tey, Linbo Liu
Nanyang Technological University

P4-028 Contrast Enhancement Of Spectral Domain Optical Coherence Tomography Using Spectrum Correction
Guangming Ni, Linbo Liu, Xiaojun YU, Lulu Wang, Yuemei Luo
University of Electronic Science and Technology of China

P4-029 Peptides Functionalized Carbon Dots For In Vitro Fluorescent Imaging Of Amyloid Fibrils
Yang Xia, Parasuraman Padmanabhan, Balázs Gulyás, Murukeshan Vadakke Matham
Nanyang Technological University

P4-030 Adaptive Control For Two-photon Excited Fluorescence And Photobleaching With A Two-dimensional SLM
Shigeru Honda, Satoshi Maesako, Naoto Kamiyama, Keisuke Toda, Akira Suda
Tokyo University of Science

P4-031 Analysis Of Triplet/dark State Dynamics Of Fluorescent Molecules In The Photobleaching Process
Sakata Nodoka, Satoshi Maesako, Kamiyama Naoto, Iwata Norihiro, Toda Keisuke, Suda Akira
Tokyo University of Science

P4-032 Glucose Sensing In Oral Tissue Mimicking Phantoms Using Supercontinuum Laser Source
Pauline John, Nilesh J. Vasa, Sujatha N, Suresh R. Rao
Indian Institute of Technology

P4-033 Label-free Guided Mode Resonance Sensor For Detection Of Glycated Hemoglobin
Boonrasri Seeleang, Sakoolkan Boonruang, Romuald Jolivot, Waleed Mohammed, Chamras Promptmas
Mahidol University
P4-034 Speckle Reduced Ophthalmic And Gastrointestinal Imaging Using Multifiber Angular Compounding Optical Coherence Tomography
Dongyao Cui, En Bo, Yuemei Luo, Xinyu Liu, Xianghong Wang, Si Chen, Xiaojun Yu, Shi Chen, Ping Shum, Linbo Liu
Nanyang Technological University

P4-035 Co-linear Multimodel Imaging System Combining Micro-OCT And Two-photon Microscopy
Jun Xie, Xinyu Liu, Linbo Liu
Nanyang Technological University

P4-036 Evaluation Of Corneal Endothelial Cells Using Micro Optical Coherence Tomography (µOCT)
Si Chen, Xinyu Liu, Nanshuo Wang, Linbo Liu
Nanyang Technological University

P4-037 Hyperspectral Imaging For Biomedical Applications
Lixin Liu, Mengzhu Li, Zhigang Zhao, Ming Zhu, Junle Qu
Xidian University

P4-038 Local Retardance Determination Using Single Input Polarization Sensitive Optical Coherence Tomography
Nanshuo Wang, Xinyu Liu, Qiaozhou Xiong, Linbo Liu
Nanyang Technological University

P4-039 A Single Fiber Endoscopy Illumination
Zhan-yu Chen, Shao-yu Li, Fu-jen Kao, Chih-cheng Hsieh
National Yang Ming University

P4-040 Light Diffusing Fiber For Illumination In Minimally Invasive Surgery
Shao-yu Li, Zhan-yu Chen, Ming-Kuan Lu, Fu-jen Kao, Chih-cheng Hsieh
National Yang Ming University
P4-041 Stimulated Raman Scattering (SRS) Microscopy: An Emerging Tool For Chemical Bond Imaging
Fa-Ke Lu, Alexandra J. Golby, X. Sunney Xie, Nathalie Y.R. Agar
Harvard Medical School

P4-042 Therapeutic Potentials Of Noninvasive Low-level Laser For Thrombocytopenia
Qi Zhang
Massachusetts General Hospital & Harvard Medical School

P4-043 Polarization Filter Characteristics Of Photonic Crystal Fiber Based On Surface Plasmon Resonance
Xin Yan , Dan Yang
Northeastern University

P4-044 Atrazine Sensor Utilizing Plasmonic Film And Ex-situ Synthesized Ag-MIP Nanocomposite On Optical Fiber
Banshi Gupta, Anand Shrivastav
Indian Institute of Technology Delhi

P4-045 ZnO-LMR Based Single-fiber Dual-ducted Probe As Sensor For Honey Adulteration
Banshi Gupta, Sruthi Usha
Indian Institute of Technology Delhi

P4-046 Fiber Optic Soil Potassium Sensor Using MWCT Sandwiched Transparent Semiconducting Metal Oxide/ion Imprinted Polymer Coatings
Banshi Gupta, Sruthi Usha, Anand Shrivastav
Indian Institute of Technology Delhi

P4-047 Structure Characterization And Radioluminescence Properties Of Ce³⁺-doped YAlO₃ Fiber
Qiang Guo
Shanghai University
P4-048 Magnetic Field Sensing Through Magnetic Force Using Erbium-doped Fiber Laser
Tianfang Zhang, Jun Zhang, Linghao Cheng, Yunbo Li, Bai-Ou Guan
Jinan University

P4-049 Design And Optimization Of Long Period Fiber Grating Devices For Sensing Applications By Using Python
Ying Wan, Huei Teo, Juan Juan, Dora Hu, Perry Ping Shum
Nanyang Technological University

P4-050 Efficient Laser-ultrasound Generation At Optical Fiber Sidewall Based On Core-offset Splicing Fiber
Xiaolong Dong, Shimin Gao, Jiajun Tian, Yao Yong
Harbin Institute of Technology

P4-051 Temperature Sensing Based On Multimodal Interference In Plastic Optical Fibers: Sensitivity Enhancement By Annealing
Tomohito Kawa, Goki Numata, Lee Heeyoung, Yosuke Mizuno, Nakamura Kentaro
Tokyo institute of technology

P4-052 Electrospun PVDF Nanofiber Mat With Additional BaTiO$_3$ Nanoparticles Used As Dynamic And Static Piezoelectric Sensor
Shaoyang Ma, Lei Wei
Nanyang Technological University

P4-053 Optimisation Of Long Period Fibre Grating Design
Huei Teo, Jing Zhang, Rebecca Yen-Ni Wong, Dora Juan Juan Hu, Zhifang Wu, Lei Wei, Perry Ping Shum
Nanyang Technological University

P4-054 Microfluidic Flowmeter Based On Long-period Fiber Grating Coated With Few-layer Graphene
Shaocheng Yan, Zengyong Liu, Yunqi Liu, Fei Xu
Nanjing University

P4-055 A Hybrid Design Of Temperature-Strain Dual-Parameter Sensing Based On Sampled Optical Fiber Grating
Xiaohang Zhang, Xiaonong Wu
Shanghai Normal University

P4-056 Photonic Crystal Fiber With Selective Infiltration For High Sensitivity Simultaneous Temperature And Strain Measurement
Chupao Lin, Changrui Liao, Yijian Huang, Ying Wang, Jun He, Yiping Wang
Shenzhen University

P4-057 Dual-channel Fiber Ultrasonic Sensors Based On Fiber Bragg Gratings In An Erbium-doped Fiber Laser
Qi Fu, Yuan Li, Jiajun Tian, Yong Yao
Harbin Institute of Technology

P4-058 Fiber-Optic Plasmonic Sensor Based On Heavily Doped Molybdenum Trioxide Nanoflakes
Mengying Zhang, Yi He, Zhe Wang, Lei Wei
Nanyang Technological University

P4-059 Portable And Stable Dual-Comb Spectroscopic System Based On All-Fiber Setup
Yue Wang, Akifumi Asahara, Ken-ichi Kondo, Kaoru Minoshima
Tokyo University of Electro-Communications

P4-060 Operation Of Power-Based BOCDR: Measurement Sensitivity Influenced By Spatial Resolution
Heeyoung Lee, Yosuke Mizuno, Kentaro Nakamura
Tokyo Institute of Technology

P4-061 Helical Long Period Grating In Multicore Fiber For Simultaneous Measurement Of Torsion And Temperature
Hailiang Zhang, Zhifang Wu, Ping Shum, Xuguang Shao, Xuan Quyen Dinh, Ruoxu Wang, Songnian Fu, Ming Tang, Weijun Tong

Nanyang Technological University

P4-062 An Optical Fiber Comprehensive Analysis System For Spectral-Attenuation And Geometry Parameters Measurement
Yang Di, Li Dingke, Tao Jinjin, Fang Yong, Mao Xin, Tong Weijun
Yangtze Optical Fibre and Cable Joint Stock Limited Company

P4-063 Developement Of Ultrasonic Sensor Using Fiber-based Optical-frequency-comb Cavity
Takashi Masuoka, Takashi Ogura, Takeo Minamikawa, Yoshiaki Nakajima, Yoshihisa Yamaoka, Kaoru Minoshima, Takeshi Yasui
Tokushima University

P4-064 Directional Bending Sensor Based On Spatially Arrayed Long Period Gratings In Multicore Fiber
Hailiang Zhang, Zhifang Wu, Ping Shum, Xuguang Shao, Xuan Quyen Dinh, Zhiyong Zhao, Ruoxu Wang, Songnian Fu, Ming Tang, Weijun Tong
Nanyang Technological University

P4-065 A Distributed Temperature Sensor Based On Two Mode Fiber
Tongqing Liu, Hao Wu, Meng Wang, Chen Yang, Weijun Tong, Songnian Fu, Ming Tang
Yangtze Optical Fiber and Cable Company Ltd (YOFC)

P4-066 Two Core Photonic Crystal Fiber With Hybrid Guiding Mechanisms
Dora Hu, Slawomir Ertman, Tomasz Wolinski, Weijun Tong
Institute for Infocomm Research

P4-067 Long-period Gratings Written In The PANDA-Air Fiber
Duan Liu, Yaohe Liu, Daxing Zhao, Georges Humbert
Hubei University of Technology

P4-068 Fabrication Of Phase-shifted Long-period Fibre Grating Using Electric-arc Technique
Duan Liu, Yaohe Liu, Daxing Zhao, Georges Humbert
Hubei University of Technology

P4-069 Measurement Of The Fiber Transfer Delay Difference Between Two Fibre Sections Using Balanced Detection
Junqiang Zhou, Huy Quoc Lam, Zhong Qize, Perry Ping Shum
Nanyang Technological University

P4-070 Relative Humidity Sensor Based On Micro-tapered Long-period Fiber Gratings Without Sensing Uncertainty
Jong-Cheol Shin, Ju Il Hwang, Seungmin Lee, Young-Geun Han
Hanyang University

P4-071 Investigation On Weak Value Amplification Using Optical Attenuation For Sensitivity Improvement Of Fiber Bragg Grating Sensors
Kwang Wook Yoo, Jong-Cheol Shin, Ji Il Hwang, Young-Geun Han
Hanyang University

P4-072 Sensitivity Improvement Of Relative Humidity Sensor Using A Few-mode Fiber Knot Resonator
Le Duong Anh Duy, Seungmin Lee, Young-Geun Han
Hanyang University

P4-073 Fiber Gratings Enabled Interrogation Of Mach-Zehnder Interferometer Fiber Sensors
Rex Xiao Tan, Stephanie Hui Kit Yap, Swee Chuan Tjin, Ken Tye Yong
Nanyang Technological University

P4-074 PDM-SSB-OFDM Transmission Over 80km SSMF Based On A Single Photodetector At C-band
Jiahao Huo, Xian Zhou, Kangping Zhong, Tao Gui, Fengze Tan, Xuan Huang, Jiajing Tu, Jinhui Yuan, Hongyu Zhang, Feng Li, Keping Long, Changyuan YU, Alan Pak Tao Lau, Chao Lu
University of Science and Technology Beijing

P4-075 Simultaneous Measurement Of Strain And Temperature With A Few Mode Fiber
Chenxu Lu, Xiaopeng Dong, Juan Su
Xiamen University

P4-076 A Cavity-concept Based Model For Understanding Photoluminescence From Single Gold Nanorods
Keyu Xia
Nanjing University

P4-077 Third Harmonic Generation Enhanced By Nonlocal Effect
Hao Hu, Yu Luo
Nanyang Technological University

P4-078 Femtosecond Pulsed Z-scan Determination Of Nonlinear Optical Absorption Of Highly Close-packed Silver Nanoparticle Films
Chun-Ping Lin, I-Chih Ni, Shien-Der Tzeng
National Taiwan Ocean University

P4-079 A Broadband Reflective Linear Polarization Converter At Optical Frequency
Jiaji Yang, Yongzhi Cheng, Rongzhou Gong
Huazhong University of Science and Technology

P4-080 Tunable Metamaterial Structures And Slow Light Effects Using Plasmon Induced Transparency
Saeed Izadshenas, Abdolnaser Zakery
Shiraz University

P4-081 Phase-matched Third Harmonic Generation Via Graphene Plasmons
Tingting Wu, Yu Luo, Lei Wei
Nanyang Technological University

P4-082 Optical Range Plasmonics Of A Niobium Metamaterial Around The Superconducting Transition Temperature
C. Y. Liao, Harish N. S. Krishnamoorthy, Vassili Savinov, J. Y. Ou, Eric Plum, Kevin F MacDonald, Cesare Soci, F. V. Kusmartsev, Din Ping Tsai, Nikolay I. Zheludev

University of Southampton

P4-083 A Photoexcited Tunable Circular Dichroism With Planar Chiral Metamaterial In Terahertz Region
Cheng Yogzhi, Chen Hao Ran, Huang Mulin, Zhou Yu Jie, Mao Xue Song, Gong Rong Zhou

Wuhan University of Science and Technology

P4-084 An Acoustic Metamaterial With Improved Bandwidth Via Impedance Matching By Gradient Index
Yihang Ding, Eleftherios Christos Statharas, Kui Yao, Minghui Hong

National University of Singapore

P4-085 Plasmonics Effects On The Electroluminescence Of An OLED Subject To Exciplex
Amadou Thierno Diallo, Samira Khadir, Pavel Markeev, Mahmoud Chakaroun, Azzedine Boudrioua

Université Paris 13

P4-086 Realization Of A Controlled-NOT Gate Using THz Spiral Metamaterials
Weizong Xu, Jiandong Ye

Nanjing University

P4-087 Active All Dielectric Metamaterial Tuned By Super Thin Liquid Crystal
Mingyu Sun, Hongjuan Wang, Yuanjin Zheng, Xiaowei Sun

Nanyang Technological University

P4-088 Particle Trapped By A Non-conservative Force Under Brownian Motion
Jack Ng, Yongyin Cao, Xiao Li, Che Ting Chan

Hong Kong Baptist University

P4-089 Phase Sensitive Distributed Vibration Sensing Using Double-pulse For Ultra-weak FBG Array
Liu Tao, Wang Feng, Zhou Ling, Zhang Xuping, Zhang Lin
Nanjing University

P4-090 Highly-sensitive Refractive Index Sensor Based On Dual-Wavelength Erbium-Doped Fiber Laser
Wang Shun, Liu Shuhui, Wang Zhe
Wuhan Institution of Technology

P4-091 Adaptive Ac Current Sensor Using Two Opposite Bias Magnetic Circuits With Two Tandem Fiber Bragg Gratings
Xiaoying Hu, Yuqiang Yang, Wei Ge, Qun Yang
Harbin University of Science and Technology

P4-092 Three-Layer Ring Optical Fiber Sensing Network With Self-healing Functionality
Ching-Hung Chang, Chia-Heng Tsai, Chen-Hsun Hu, Chun-Yu Hsieh
National Chiayi University

P4-093 Fiber Bragg Grating Sensors For Real-time Monitoring Of Boiler U-bend Tubes Thinning
Aayush Madan, Xiufeng Yang, Jianzhong Hao, Ping Shum
Nanyang Technological University

P4-094 High Performance Interrogation Of Ultra-weak FBG Array Using Double-pulse And Heterodyne Coherent Detection
Wang Feng, Liu Tao, Yuan Quan, Liu Yu, Niu Jihui, Zhang Xuping, Zhang Lin
Nanjing University

P4-095 Fiber-Optic Sensing System For Simultaneous Measurement Of Temperature And Transversal Loading Based On Reflective Fiber Mach-Zenhder Interferometer
Rui Wu, Shiwei Zhang, Xinying Chen, Hongyan Fu
Xiamen University

P4-096 Silica Tube Based Fiber Sensor For High Temperature Sensing
Liu Shuhui  
Wuhan Institute of Technology

P4-097 Influence Of Gamma Radiation On Luminescence Properties Of Ce$^{3+}$-doped Silica Materials  
Jialei Zhang, Xiaobin Jia, Zhou You, wenyun Luo, Qiang Guo, Kun Yue, Tingyun Wang  
Shanghai University

P4-098 50-km-long Distributed Vibration Fiber Sensor Based On Phase-Sensitive OTDR Using Coherent Detection  
Fufei Pang  
Shanghai University

P4-099 Small Period Long Period Grating With Enhanced Sensitivity In Low Refractive Index Region  
Fangcheng Shen, Kaiming Zhou Zhou, Lin Zhang, Xuewen Shu  
Huazhong University of Science and Technology

P4-100 Multipoint Temperature Sensing Using Linear-Cavity Fiber Laser With AWG And FBGs  
Mao Okada, Kishikawa Hiroki, Goto Nobuo, Yi-Lin Yu, Shien-Kuei Liaw  
Tokushima University

P4-101 Development A Novel Diffractive Optical Element Which Detects The Center Wavelength Of A Light Source Using A Multiplex Fresnel Hologram  
Shigeki Nishida  
Nara National College of Technology

P4-102 Advanced Image Fusion System  
Cheng Keong Seow, Ming Xing Lu, Xian Jun Timothy Tsang, Wei Loong Tong, Eu Jin Tan, Sheng Rong Yu, Yeok Koon Joseph Gwee  
Stelop Pte Ptd

P4-103 Pixelated Flexible Infrared Nanosensor Array Based On Carbon Nanoparticles
Yuan Longyan
Huazhong University of Science and Technology

P4-104 Polarization Dependence of Rayleigh Interference Signal in Phase-sensitive OTDR
Zhijie Yu, Yang Lu, Zhou Meng
College of Optoelectronic Science and Engineering

P4-105 A High Sensitivity Strain Sensor Based On A Selective-filling High Birefringent Photonic Crystal Fiber Sagnac Interferometer
Tingting Han, Yange Liu, Zhi Wang
Tianjin Normal University

P4-106 An Enhanced Condition Monitoring System For Gas Pipes Using Fiber Bragg Gratings
Peng Zu, Zhi Qiang Tou, Yanru Wang, Yunfeng Lin, Yangzi Zheng, Ping Lam So, Chi Chiu Chan
Nanyang Technological University

P4-107 Flexible and Streamline Composite Material Optical Fibre Connector-less Interface
Rebecca Yen-Ni Wong, Jun Long Lim, Emily Jianzhong Hao
Institute for Infocomm Research

P4-108 BOTDA Sensor Utilizing Digital Optical Frequency Comb Based Phase Spectrum Measurement
Jin Chao, Wang Liang, Chen Yuli, Guo Nan, Yu Changyuan, Li Zhaohui, Lu Chao
The Hong Kong Polytechnic University

P4-109 Design Of Fabry-Perot Refractometer Based On A Simplified Hollow-Core PCF With A CFBG Pair
Yu Zheng, Zhifang Wu, Georges HUMBERT, Hailiang Zhang, Ping Shum, Quyen Dinh
Nanyang Technological University

P4-110 SVM Algorithm Based Events Discrimination For Distributed Optical Fiber Intrusion Sensing System
Kuan Peng, Macheng Lai, Deming Liu, Qizhen Sun
P4-111 High-Resolution Frequency Detection With Multiple AWGs And Post-Processing For MultiChannel Fiber Sensors
Hiroki Kishikawa, Nobuo Goto, Yi-Lin Yu, Shien-Kuei Liaw
Tokushima University

P4-112 Three-dimensional Reconstruction For Photon Counting Imaging Using A Planar Catadioptric Method
Weitao Song, Dongdong Weng, Yue Liu, Yontian Wang, Yuanjin Zheng
Nanyang Technological University

P4-113 Femtogram Scale High Frequency Nano-optomechanical Resonators In Water
He Zhang, Jinsong Xia
Huazhong University of Science and Technology

P4-114 Strain Sensing Characteristics Based On A Fiber-capillary-fiber Fabry-Perot Interferometer
Haiyang Pan, Xiaobei Zhang, Ming Yan, Jiawei Wang, Haiyang Shao, Fufei Pang, Sujuan Huang, Tingyun Wang
Shanghai University

P4-115 A Compact And Highly-sensitive Bend Sensor Based On Mach-Zehnder Interferometer Using All-solid Photonic Crystal Fiber
Xiongwei Hu, Lvyun Yang
Huazhong University of Science and Technology

P4-116 A BOCDA System Using Time-domain Data Processing For An Enlarged Measurement Range To 10 Km
Gukbeen Ryu, Kwang Yong Song, Gyu-Tae Kim, Sang Bae Lee, Kwanil Lee
Korea Institute of Science and Technology and Korea University
P4-117 Ultra-sensitive Temperature Sensor Based On Microstructure Fiber Mach-Zehnder Interferometer
Ming Deng, Yong Zhao, Leiguang Liu, Tao Zhu
Chongqing University

P4-118 High Sensitivity Refractive Index Sensor Based On Optical Fiber Ultra-weak Fabry Perot Interferometer
Chen Pengcheng, Shu Xuewen, Cao Haoran
Huazhong University of Science and Technology

P4-119 Ruggedised, Low Frequency Range Vibration Sensor Using Fiber Bragg Gratings
Jun Long Lim, Rebecca Yen-Ni Wong, Perry Ping Shum, Avellin Zi Xin WONG, Jing Xuan CHAI, Tasha Sonia KAUR
Institute for Infocomm Research

P4-120 A Fiber Sagnac Interferometer For Atomic Precession Detection
Liu Xuejing, Yang Yuanhong, Ding Ming, Jin Wei
Beihang University

P4-121 Optical Fiber Temperature Sensor With Single Sagnac Interference Loop Based On Vernier Effect
Wu Binqing, Zhao Chunliu, Xu Ben
China Jiliang University

P4-122 Innovation Method For Accelerating Response Time Of Reflective Type LCoS-SLM In Off-axis System
Chun-Wei Tsai, Cheng-Chieh Hung, Chen-Hsien Chu, Chen Wang
Jasper Display Corporation (JDC)

P4-123 Compact And High-resolution Sorting Of Optical Orbital Angular Momentum States
Chenhao Wan, Jian Chen, Qiwen Zhan
Huazhong University of Science and Technology
P4-124 High-resolution Superposition Algorithm For Multiplane 3D Fresnel Holograms
Ghaith Makey, Onur Tokel, Denizhan Kesim, Ahmet Turnali, Ozgun Yavuz, Johnny Toumi, Moustafa Sayem El-Daher, Omer Ilday
Bilkent University

P4-125 Effective Speckle Reduction Method In Holographic Projection Display Using A Spatial Light Modulator
Hsin-Chuan Chen, Zi-Hao Guo, Yu-Hau Chen, Wei-Feng Hsu
National Taipei University of Technology

P4-126 The Propagation Of Airy-related Beams Generated By Conjugate And Symmetric Holograms
Tong Li, Kaikai Huang
Zhejiang University

P4-127 Dynamic Head Tracked 3D Display Using Fast Spatial Light Modulator
Lei Zhang, Phil Surman, Yuanjin Zheng
Nanyang Technological University

P4-128 Duality Properties Of Light Field Capture And Display On Lytro Camera And Multi-Layer Display
Yuxian Feng, Xiangyu Zhang, Song Guo, Shizheng Wang, Phil Surman, Junsong Yuan, Yuanjin Zheng
Nanyang Technological University

P4-129 Novel Liquid Crystal Beam Steering Device
Hongjuan Wang, Philip Surman, Yuanjin Zheng
Nanyang Technological University

P4-130 Super Multiview 3D Display Systems
Philip Surman, Xiangyu Zhang, Hongjuan Wang, Xinxing Xia Xinxing, Rahul Rawat, Yuanjin Zheng
Nanyang Technological University
P4-131 Continuously Tunable Dual-passband Microwave Photonic Filter Based On Single Sideband Injected Semiconductor Laser
Huatao Zhu, Rong Wang, Tao Pu, Peng Xiang, Long Huang
PLA University of Science and Technology

P4-132 High-sensitivity Phase Noise Measurement Of RF Sources By Photonic-delay Line And Digital Phase Demodulation
Shi Jingzhan, Zhang Fangzheng, Pan Shilong
Nanjing University of Aeronautics and Astronautics

P4-133 Fiber Dispersion Induced RF Power Fading Compensated Microwave Photonic Filter With A Tunable Single Passband
Lu Xu, Xi Kong, Ziwei Wang, Haitao Tang, Xiaolong Liu, Yuan Yu, Jianji Dong, Xinliang Zhang
Huazhong University of Science and Technology

P4-134 Duration Expansion Of Wavelength-to-Time Mapping Based On A Programmable Dispersion Loop
Zhang Siteng, Zou Weiwen, Wu Kan, Chen Jianping
Shanghai Jiao Tong University

P4-135 Photonic Generation of a Phase-switchable ASK Signal Using Orthogonal Polarization Modes of A Single Optical Phase Modulator
Kenichiro Tsuji, Tomoyuki Uehara
National defense academy

P4-136 High Speed Pulse Waveform Measurement System Based On LiTaO₃ Integrated Circuit
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