

2026
OGC

The 11th Optoelectronics Global Conference

第十一届全球光电大会

Program Book 日程手册

Shenzhen, China
September 08 - 11, 2026

中国·深圳
2026年9月08-11日



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CONFERENCE COMMITTEE

Honorary Chair

Xiancheng Yang, Chairman of China International Optoelectronic Exposition Organizing Committee Office, China

General Chairs

Baojun Li, Jinan University, China

Qionghua Wang, Beihang University, China

John Dudley, Université de Franche-Comté, France

Qihuang Gong, Peking University, China

Chennupati Jagadish, Australian National University, Australia

David Neil Payne, University of Southampton, UK

Program Chairs

Gina, Jinna Chen, Southern University of Science and Technology, China

Xia Yu, Beihang University, China

Sze Y. Set, The University of Tokyo, Japan

Anna Peacock, University of Southampton, UK

Ken Oh, Yonsei University, South Korea

George Humbert, CNRS, France

Neil Broderick, Auckland University, New Zealand

Xiang Zhou, Google, USA

Local Organizing Committee Chairs

Huanhuan Liu, Shenzhen Institute of Advanced Technology, CAS, China

Hai Yuan, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, China

Zhaohui Li, Sun Yat-Sen University, China

Yunxu Sun, Harbin Institute of Technology, Shenzhen, China

Songnian Fu, Guangdong University of Technology, China

Changrui Liao, Shenzhen University, China

Publication Chairs

Yiyang Luo, Chongqing University, China

Yating Wan, King Abdullah University of Science and Technology, Kingdom of Saudi Arabia

Lisong Yan, Huazhong University of Science and Technology, China

Sponsorship Chairs

Zhengji Xu, Sun Yat-sen University, China

Tianxun Gong, University of Electronic Science and Technology of China, China

Lei Han, Inner Mongolia Agricultural University, China



Special Session Chairs

Tianye Huang, China University of Geosciences (Wuhan), China

Xian Zhou, University of Science and Technology Beijing, China

Workshop Chairs

Dongmei Huang, The Hong Kong Polytechnic University, China

Francesco Chiavaioli, "Nello Carrara" Institute of Applied Physics, CNR-IFAC, Italy

Hong Dang, Hangzhou International Innovation Institute, Beihang University, China

Publicity Chairs

Howard Lee, University of California, Irvine, USA

Chao Wang, University of Kent, UK

Shuyan Zhang, Tokyo Electron America, USA

Finance Chairs

Huizi Li, Shanghai Institute of Microsystem and Information Technology, CAS, China

Chenxu Lu, Xiamen University, China

International Advisory Committee

Songhao Liu, South China Normal University, China

Yunjie Liu, China Unicom Co. Ltd., China

Xun Hou, Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences, China

Jianquan Yao, Tianjin University, China

Huilin Jiang, Changchun University of Science and Technology, China

Ziseng Zhao, Wuhan Research Institute of Posts and Telecommunications, China

Zhizhan Xu, Shanghai Institute of Optics and Precision Mechanics, Chinese Academy of Sciences, China

Shuisheng Jian, Beijing Jiaotong University, China

Dianyuan Fan, Shenzhen University, China

Lijun Wang, Changchun Institute of Optics and Fine Mechanics and Physics, Chinese Academy of Sciences, China

Wenqing Liu, Anhui Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China

Shaohua Yu, China Information Communication Technologies Group Corporation, China

Ying Gu, The General Hospital of the People's Liberation Army, China

Symposia Chairs

S1. Laser Technology

Dingyuan Tang, Shenzhen Technology University, China

Guoqiang Xie, Shanghai Jiao Tong University, China

Rich Mildren, Macquarie University, Australia

Chen Yung-Fu, Yang Ming Chiao Tung University, China

S2. Optical Communication and Networks

Lei Deng, Huazhong University of Science and Technology, China

Xiaodan Pang, Zhejiang University, China



Junwen Zhang, Fudan University, China

Jianping Li, Guangdong University of Technology, China

Qi Yang, Huazhong University of Science and Technology, China

Xijia Zheng, Google LLC, Sunnyvale, CA, USA

S3. Metamaterials and Photonic Crystals

Longqing Cong, Southern University of Science and Technology, China

Hongchao Liu, University of Macau, China

Huifang Zhang, University of Electronic Science and Technology of China, China

S4. Quantum Optics and Information

Kemi Xu, Beijing Institute of Technology, China

Qiang Zhou, University of Electronic Science and Technology of China, China

Yong-Chun Liu, Tsinghua University, China

Xuejian Wu, Rutgers University-Newark, USA

S5. Fiber-Based Technologies and Applications

Xia Yu, Beihang University, China

Yuwen Qin, Guangdong University of Technology, China

Lei Wei, Nanyang Technological University, Singapore

Youngjoo Chung, Gwangju Institute of Science and Technology, South Korea

S6. Optoelectronic Devices and Applications

Huizi Li, Shanghai Institute of Microsystem and Information Technology(CAS), China

Hongwei Chen, Tsinghua University, China

Yu Yu, Huazhong University of Science and Technology, China

Xuhan Guo, Shanghai Jiao Tong University, China

Chaoran Huang, The Chinese University of Hong Kong, China

S7. Biophotonics and Optical Biomedicine

Gina, Jinna Chen, Southern University of Science and Technology, China

Linbo Liu, Nanyang Technological University, Singapore

Junle Qu, Shenzhen University, China

Haoyun Wei, Tsinghua University, China

Guanghui Wang, Nanjing University, China

S8. Data Center Optical Interconnects and Networks

Fan Zhang, Peking University, China

Yongli Zhao, University of Posts and Telecommunications, China

Jianqiang Li, LightsAI, USA

Liang Dou, Alibaba Cloud, Beijing, China

Yixiao Zhu, Shanghai Jiao Tong University, China

S9. Silicon Photonics

Mingbin Yu, Bei Jing Yan Dong Microelectronic Technology Co., Ltd., China

Zeng Li, Huawei Technologies CO., LTD., China

Xiao Xi, National Information Optoelectronics Innovation Center, CICT, China

Di Liang, Hewlett Packard Labs, USA



Qize Zhong, Shanghai University, China

S10. Computational Imaging

Fucai Zhang, Southern University of Science and Technology, China

Chao Zuo, Nanjing University of Science and Technology, China

Liangcai Cao, Tsinghua University, China

Special Sessions Chairs

T1. Mid Infrared Lasers and their Applications

Chunyu Guo, Shenzhen University, China

Ming Yan, East China Normal University, China

Tengfei Wu, Beijing Institute of Metrology, China

Houkun Liang, Sichuan University, China

Lei Jin, Harbin Engineering University, China

Meng Pang, Shanghai Institute of Optics and Fine Mechanics, CAS, China

T2. Photonics for Ocean

Qi Wu, Harbin Institute of Technology, China;

Southern Marine Science and Engineering Guangdong Laboratory (Guangzhou), China

Fuyin Wang, National University of Defense Technology, China

Guojun Wu, Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences; Laoshan National Laboratory, China

Zhaohui Li, Sun Yat-Sen University, China

Jing Xu, Zhejiang University, China

Liyang Shao, Southern University of Science and Technology, China

Tuan Guo, Jinan University, China

Weihong Bi, ZhongShan Institute of Changchun University of Science and Technology, Changchun, China; Ocean Research Institute of Yanshan University, Qinhuangdao, China

T3. Optoelectronics EDA Software

Lei Wang, Pengcheng Lab, China

Genxiang Chen, Minzu University of China, China

Weiping Huang, Shandong University, China

T4. Automotive Optoelectronics

Gordon Ning Liu, Soochow University, China

Xian Zhou, University of Science and Technology Beijing, China

Haining Yang, Southeast University, China

Jing Wang, Southern University of Science and Technology, China

Zhiyong Feng, Huawei Technologies, China

T5. Optical Communication and Sensing Technologies

Jinlong Wei, Pengcheng Laboratory, China

Yuyang Liu, China Telecom, China

Jim Zou, Adtran Networks, USA

Xuping Zhang, Nanjing University, China

Muhammad Hunain Memon, University of Science and Technology of China, China

T6. Photonic Integration



Kan Wu, Shanghai Jiao Tong University, China

Hao Wang, Beihang University, China

Qifeng Ruan, Harbin Institute of Technology (Shenzhen), China

T7. Photonic Sensing

Tianye Huang, China University of Geosciences (Wuhan), China

Chunmei Ouyang, Tianjin University, China

Zhilin Xu, Huazhong University of Science and Technology, China

Zhiyong Zhao, Huazhong University of Science and Technology, China

Workshops Chairs

W1. Advanced Specialty Optical Fiber and Applications

Zhenggang Lian, Yangtze Optical Electronics Co., China

Meisong Liao, Shanghai Institute of Optics and Fine Mechanics, CAS, China

Jing Zhang, China University of Geosciences, Wuhan, China

Chong Hou, Huazhong University of Science and Technology, China

W2. Optical Sensing for Safety

Dongmei Huang, The Hong Kong Polytechnic University, China

Zhixun Wang, The Hong Kong Polytechnic University, China

W3. PhotonIX Life Workshop on Life Science and Application

Junle Qu, Shenzhen University, China

Ammasi Periasamy, University of Virginia, USA

Perry Ping Shum, IEEE Photonics Society

Xu-Feng Huang, University of Wollongong, Australia

Xiuyun Liu, Tianjin University, China

Kailiang Xu, Fudan University, China

Special Events Chairs

C1. Optoelectronics Innovation Challenge

Qizhen Sun, Huazhong University of Science and Technology, China

Lei Wei, Nanyang Technological University, Singapore

Jiajia Chen, Chalmers University of Technology, Sweden

Fei Luo, FLT Inc. USA

Xin Gong, FemtoFiberTec GmbH, Germany



INVITED TALKS

S1. Laser Technology



Dongmei Huang

The Hong Kong Polytechnic University, China



Yani Zuo

National Institute of Metrology, China



Kai Wang

Southern University of Science and Technology, China



Ran Xia

South-Central Minzu University, China



Wenjia Li

Shenzhen Gongda Laser Co., Ltd., China



Mohammed Zahed M Khan

Anglia Ruskin University, UK



Feng Li

Xi'an Jiaotong University, China

S2. Optical Communication and Networks



Jingchi Li

Shanghai Jiao Tong University, China



Tao Yang

Beijing University of Posts and Telecommunications, China



Xiaosong Yu

Beijing University of Posts and Telecommunications, China



Lihua Ruan

Pengcheng Laboratory, China



Anhui Liang

Yango University, China



Alan Pak Tao Lau

The Hong Kong Polytechnic University, China



Xu Wang

National University of Ireland Maynooth, Ireland



Kangping Zhong

The Hong Kong Polytechnic University, China

S3. Metamaterials and Photonic Crystals



Chen Chen

Nanjing University, China



Ran Chen

Institute of Process Engineering, Chinese Academy of Sciences, China



Hao Wang

Beihang University, China



Junxing Fan

Shenzhen Institute for Advanced Study, University of Electronic Science and Technology of China, China



Jihua Zhang

Songshan Lake Materials Laboratory, China



Fei Ding

Eastern Institute of Technology, Ningbo, China



Hongchao Liu

University of Macau, China



Yi Li

Southern University of Science and Technology, China



Yachao Liu

Shenzhen University, China



Guizhen Xu

Southern University of Science and Technology, China



Zi-Lan Deng

Jinan University, China



Wange Song

Nanjing University, China

S4. Quantum Optics and Information



Fan Jiang

National Laboratory of Electromagnetic Space Security, China



Ruoran Meng

University of Science and Technology of China, China

S5. Fiber-Based Technologies and Applications



Ye Tian

Harbin Engineering University, China



Yang Yue

Xi'an Jiaotong University, China



Yu Wang

Taiyuan University of Technology, China



Daiqi Xiong

Beihang University, China





Zhixun Wang

The Hong Kong Polytechnic University, China



Hao Li

Huazhong University of Science and Technology, China



Liangye Li

Xidian University, China

S6. Optoelectronic Devices and Applications



Changzheng Sun

Tsinghua University, China



Jiu-An Lv

Westlake University, China



Huifu Xiao

Lanzhou University, China



Jiawei Wang

Harbin Institute of Technology Shenzhen, China



Ang Li

Nanjing University of Aeronautics and Astronautics, China



Liang Liu

Shanghai Jiao Tong University, China



Dmitry Shtarev

St. Petersburg State University, Russia



Vincenzo Pecunia

Simon Fraser University, Canada



Qiancheng Zhao

Southern University of Science and Technology, China



Yuefei Cai

Southern University of Science and Technology, China



Qasim Muhammad

Beijing Institute of Technology, China



Muhammad Hunain Memon

University of Science and Technology of China, China



Xiankai Sun

The Chinese University of Hong Kong, China



Wenjia Zhang

Shanghai Jiao Tong University, China

S7. Biophotonics and Optical Biomedicine



Heming Wei

Shanghai University, China



Hongbao Xin

Jinan University, China



Yu Chen

Fujian Normal University, China



Ruochong Zhang

A*STAR Skin Research Labs,
Singapore



Kun Chen

University of Electronic Science
and Technology of China, China



Bingwei Liu

University of Shanghai for
Science and Technology, China

S8. Data Center Optical Interconnects and Networks



Shaohua Hu

University of Electronic Science
and Technology of China, China



Rongping Lin

University of Electronic Science
and Technology of China, China

S9. Silicon Photonics



Yu He

Shanghai Jiao Tong University,
China



Zhenzhou Cheng

Tianjin University, China



Feng He

Harbin Institute of Technology
(Shenzhen), China



Qingming Chen

Sun Yat-Sen University, China



Yanjing Zhao

National Optoelectronics
Innovation Center, China



Siyang Liu

Wuhan Wuyue Optoelectronic
Technology, China



Jing Wang

Southern University of Science
and Technology, China



Xiao Hu

Zhangjiang Laboratory, China



Kensuke Ogawa

Innovation & Research Center,
Shenzhen Yuto Packaging
Technology Co. Ltd, China



Ping Zhao

Sichuan University, China



Wei Wang

Shanghai Industrial
μTechnology Research Institute
(SITRI), China



Yan Yang

Institute of Microelectronics,
Chinese Academy of Sciences,
China



Zihao Wang

Institute of Physics, Chinese
Academy of Sciences, China



Yuan Dong

Shanghai University, China



Baisong Chen

Jilin University, China

S10. Computational Imaging



Yuxi Fu

State Key Lab of Ultrafast
Optical Science and
Technology, China



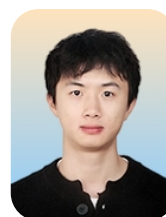
Jingdan Liu

Shanghai Institute of Optics
and Fine Mechanics, Chinese
Academy of Sciences, China



Zhibin Sun

ShanghaiTech University, China



Hao Sha

Harbin Institute of Technology
(Shenzhen), China



Ping Su

Tsinghua Shenzhen
International Graduate School,
China



Tomas Aidukas

EPFL, PSI, Switzerland



Honggang Gu

Huazhong University of Science
& Technology, China



Yudong Yao

ShanghaiTech University, China



Hui Zhang

South China University of
Technology, China



Huixiang Lin

Institute of Advanced Light
Source Facilities, Shenzhen,
China



Edmund Lam

The University of Hong Kong,
China



Qiegen Liu

Nanchang University, China



Chang Qiao

Tsinghua University, China



Jiaming Qian

Nanjing University of Science and Technology, China



Yunhui Gao

Tsinghua University, China



Shijie Feng

Nanjing University of Science and Technology, China

T1. Mid Infrared Lasers and their Applications



Junqing Zhao

Shenzhen Technology University, China



Chunyu Guo

Shenzhen University, China

T2. Photonics for Ocean



Fuyin Wang

National University of Defense Technology, China



Zhaoshuo Tian

Harbin Institute of Technology (Weihai), China



Qi Wu

1. Southern Marine Science and Engineering Guangdong Laboratory (Guangzhou), Guangzhou, China. 2. School of Sciences and Qingdao Research Institute, Harbin Institute of Technology



Jing Xu

Zhejiang University, China



Guojun Wu

Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences; Laoshan National Laboratory, China



Zijin Zhang

Harbin Institute of Technology, China



Bin Luo

Southern University of Science and Technology, China



Zhengyong Liu

Sun Yat-sen University, China



Yang Yang

Harbin Institute of Technology,
Shenzhen, China



Wenbo Sun

CICORE, China



Ran Liao

Southern University of Science
and Technology, China



Weihong Bi

ZhongShan Institute of
Changchun University of
Science and Technology,
Changchun, China; Ocean
Research Institute of Yanshan
University, Qinhuangdao, China



Yafei Li

Jinan University, China



Jiajin Li

CICO Research Global Co., Ltd.,
China

T3. Optoelectronics EDA Software



Ruping Cao

Semitronix, China



Xiaoming Liu

Empyrean Technology, China



Zheng Zhou

Anslys part of Synopsys, China



Qisheng Yang

Hunan University, China

T4. Automotive Optoelectronics



Yang Liu

Harbin Institute of Technology,
Chin



Yaxi Yan

The Hong Kong Polytechnic
University, China



Zixian Wei

The Hong Kong Polytechnic
University, China



Zhenming Yu

Beijing University of Posts and
Telecommunications, China



Wei Jiang

The Hong Kong University of
Science and Technology
(Guang Zhou), China



Wei Jiang

Nanjing University, China



Juan Liu

Beijing Institute of Technology,
China



Enyu Zhou

Huawei Technologies Co. Ltd,
China



Hui Li

Shenzhen Technology University, China



Yuning Zhang

Southeast University, China



Yuanbo Deng

Nanjing ReaVis Technology Co., Ltd., China

T5. Optical Communication and Sensing Technologies



Hongyan Fu

Tsinghua University, China



Xiang Li

China University of Geoscience (Wuhan), China



Yunping Bai

Beijing University of Posts and Telecommunications, China



Zhaopeng Xu

Pengcheng Laboratory, China



Yuan Luo

The Chinese University of Hong Kong (Shenzhen), China



Xianqing Jin

Great Bay University, China



Xiaodan Pang

Zhejiang University, China



Bowen Liu

Keio University, Japan



Gordon Ning Liu

Soochow University, China



Chunhui Yao

GlitterinTech Limited, China



Yunyun Huang

Jinan University, China



Yixiao Zhu

Shanghai Jiao Tong University, China



Lu Zhang

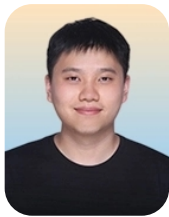
Zhejiang University, China



Qi Wu

The Hong Kong Polytechnic University, China

T6. Photonic Integration



Shiqi Hu

Pohang University of Science and Technology (POSTECH)/Korea Advanced Institute of Science and Technology (KAIST), China



Dezhi Tan

Zhejiang University, China



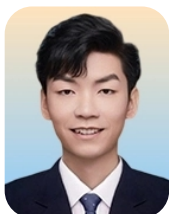
Bing Han

Shanghai Jiao Tong University, China



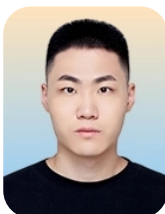
Qian Li

Peking University, China



Xiaoxin Li

Hangzhou International Innovation Institute of Beihang University, China



Yuanbin Liu

Shenzhen University, China

T7. Photonic Sensing



Huizi Li

Shanghai Institute of Microsystem and Information Technology, CAS, China



Jing Zhang

China University of Geosciences (Wuhan), China



Qingwen Liu

Shanghai Jiao Tong University, China



Zewei Luo

Sichuan University, China

W1. Advanced Specialty Optical Fiber and Applications



Fetah Benabid

GPPMM group, XLIM Research Institute, CNRS-Université de Limoges, France



Markus Roehner

CeramOptec/Biolitec, Germany



Fei Yu

Shanghai Institute of Optics and Fine Mechanics, CAS, China



George Y. Chen

Shenzhen University, China





Wei Li

Beihang University,
Tianmushan Laboratory, China



Wei Gao

Yangtze Optical Electronics Co.,
Ltd., China

W2. Optical Sensing for Safety



Wei Jin

The Hong Kong Polytechnic
University, China



Haoran Meng

Southern University of Science
and Technology, China



Yongkang Dong

Harbin Institute of Technology,
China



Linbo Liu

Guangzhou Laboratory, China



Kaiwei Li

Jilin University, China



Xi Liu

Huawei Technologies Co. Ltd,
China



Jun He

Shenzhen university, China



Hongkun Zheng

Northeastern University, China

W3. PhotoniX Life Workshop on Life Science and Application



Ting Feng

Fudan University, China



Xiran Cai

ShanghaiTech University, China



Lili Gui

Beijing University of Posts and
Telecommunications, China



Chunzhu Zhao

Peking University, China



Diya Wang

Xi'an Jiaotong University, China



Hongli Chen

Peking Union Medical College,
China



CONFERENCE VENUE

OGC Location: South Lobby Conference Area (1st Floor) | 会场区域：一楼南登会议区（南登录大厅西侧）

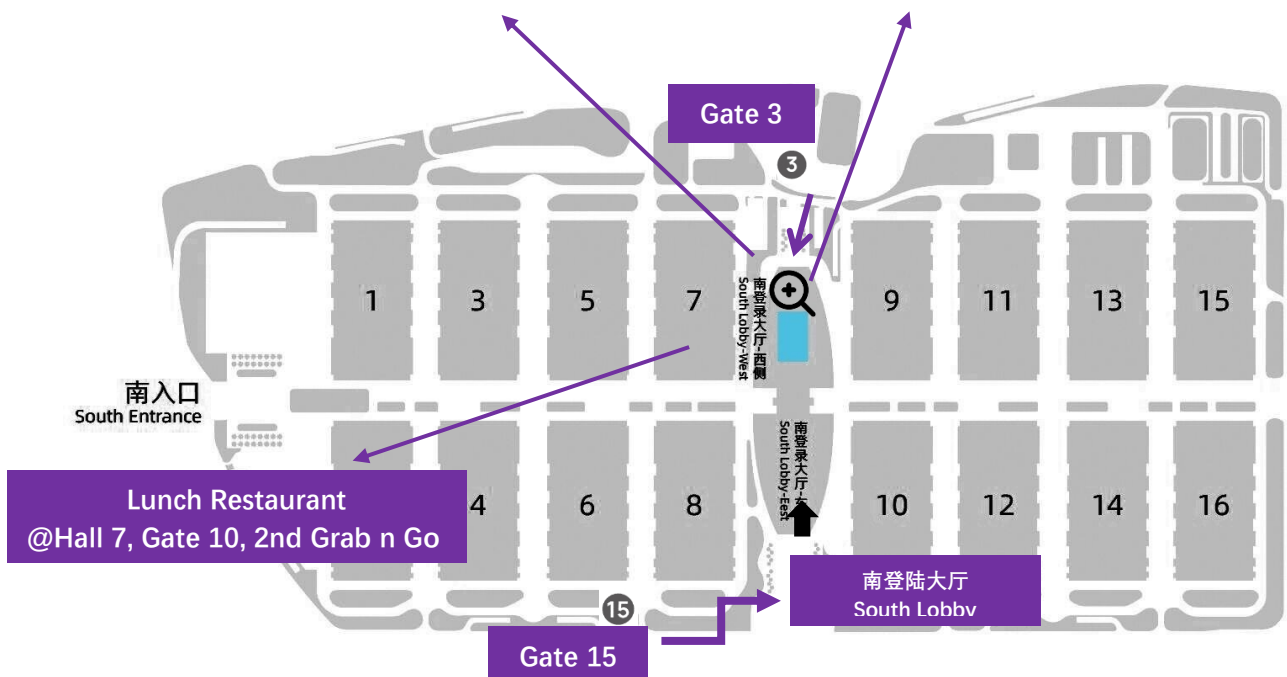
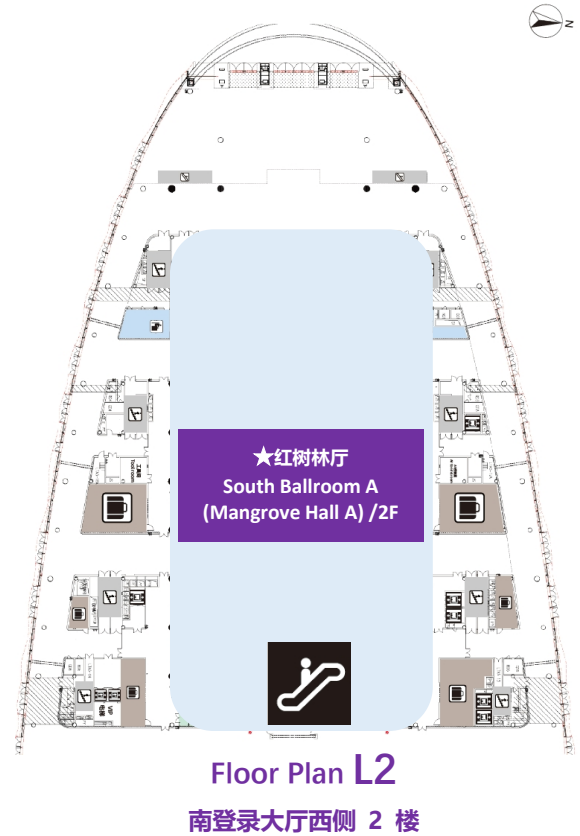
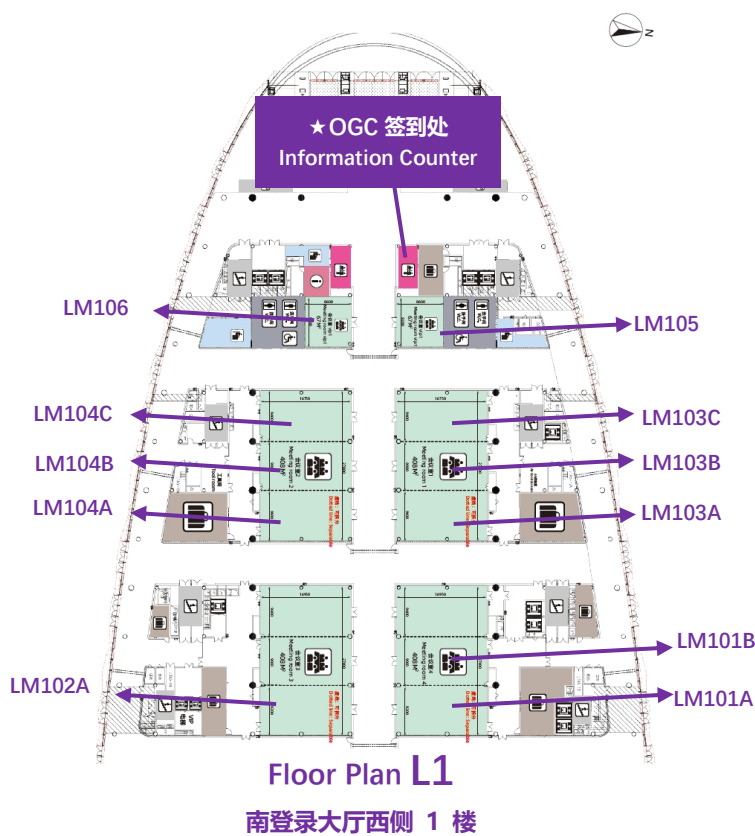
Information Counter: Outside LM105 /1F | 南登录大厅西侧一楼 LM 会议区域处

Opening Ceremony: South Ballroom A (Mangrove Hall A) /2F | 南登录大厅二层红树林厅 A

Lunch: Hall 7, Gate 10, 2nd Grab n Go | 7 号馆 10 号门二层

Banquet: Deking Multifunction Room 2F, Dejin Convention International Hotel | 深圳德金会展国际酒店 2F 德金多功能厅

Please inquire at the information counter and collect your daily meal voucher | 请于签到台咨询并领取当日餐券



CONFERENCE GUIDELINE

► Oral Presentation

- The duration of an Invited Speech is 30 minutes, for paper presentation slot is 15 minutes. Please target your lecture for a duration of about 13 minutes for the presentation plus about 2 minutes for questions from the audience.
- Your punctual arrival and active involvement in each session will be highly appreciated.
- Get your presentation PPT or PDF files prepared and backed up.
- Laptops, projector & screen, laser sticks will be provided by the conference organizer.

► Poster Presentation

- It's expected that at least one author stands by the poster for (most of the time of) the duration of the poster session. This is essential both to present your work to anyone interest in it and to make sure that your presence is verified by committee.

► Security

- Please ensure that you take your belongings with you at all times when leaving a room. Do not leave bags or laptops unattended.

► Name Badge

- For security purposes, delegates, Presenters, exhibitors and staff are required to wear their name badge to all sessions and social functions. Entrance into sessions is restricted to registered delegates only. If you misplace your name badge, please replace at the registration counter.



CONFERENCE AGENDA

September 8, 2026 | Tuesday

Time	Activities	
10:00-17:00	Sign-in & Materials Collection	Venue: Outside LM105 /1F

September 9, 2026 | Wednesday

Opening Ceremony

EMCEE: Daiqi Xiong, Beihang University, China

ChenweiXu, Beijing Institute of Technology, Zhuhai, China

Venue: Mangrove A, Second Floor, South Entrance Hall, Shenzhen World Exhibition & Convention Center

Time	Activities
10:00-10:05	OGC 2026 Opening Remark Perry Ping Shum, The 37th President of IEEE Photonics Society
10:05-10:15	Signing Ceremony & Launch Ceremony for Longsight
10:15-10:20	OGC 2026 Plaque Awarding Ceremony
10:20-10:30	LSA Awards Ceremony
10:30-10:40	OGC 2026 Awards Ceremony
10:40-10:55	PhotoniX Life Journal Recommendation & Certificate of Appointment Ceremony

OGC 2026 Plenary Speeches

Venue: Mangrove A, Second Floor, South Entrance Hall, Shenzhen World Exhibition & Convention Center

Time	Activities
10:55-11:30	Sub-10 nm Resolution in 3D Ultrafast Laser Manufacturing Hongbo Sun Tsinghua University, China <i>Presider: Hong Dang, Hangzhou International Innovation Institute, Beihang University, China</i>
11:30-12:05	Adaptive Holographic Interferometry as An Ultra-High Sensitivity Tool for Precision Measurements Roman Romashko Far Eastern Branch of Russian Academy of Sciences, Russia <i>Presider: Gina, Jinna Chen, Southern University of Science and Technology, China</i>
12:05-12:40	High-performance Light Field 3D Display Qionghua Wang Beihang University, China <i>Presider: Qian Li, Peking University, China</i>

Lunch

Technical Sessions

13:00-15:10	W03. PhotoniX Life Workshop on Life Science and Application	LM103C / 1F
15:10-15:35	Coffee Break	
15:35-17:30	PhotoniX Life Editorial Board Meeting (By Invitation Only)	LM103C / 1F
13:30-16:30	T04. Automotive Optoelectronics (I)	LM105 / 1F
16:30-17:00	Coffee Break	

September 10, 2026 | Thursday

Time	Activities	
07:00-08:00	Light Tai Chi Session, Level 3, Hilton Hotel (outdoor area next to K Kitchenkraft)	
Technical Sessions		
Time	Activities	Venue
09:00-10:30	S10. Computational Imaging (I)	LM103A / 1F
09:00-10:30	S09. Silicon Photonics (I)	LM103B / 1F
09:00-10:00	T02. Photonics for Ocean (I)	LM103C / 1F
09:00-10:30	S07. Biophotonics and Optical Biomedicine (I)	LM104A / 1F
09:00-10:30	S06. Optoelectronic Devices and Applications (I)	LM104B / 1F
09:00-10:30	T07: Photonic Sensing	LM104C / 1F
09:00-10:30	T05. Optical Communication and Sensing Technologies (I)	LM101A / 1F
09:00-10:30	S09. Silicon Photonics (II)	LM105 / 1F
10:30-10:45	Coffee Break	
Technical Sessions		
10:45-12:05	S10. Computational Imaging (II)	LM103A / 1F
10:45-12:15	S02. Optical Communication and Networks (I)	LM103B / 1F
10:30-12:00	T02. Photonics for Ocean (II)	LM103C / 1F
10:45-12:15	S07. Biophotonics and Optical Biomedicine (II)	LM104A / 1F
10:45-12:15	S06. Optoelectronic Devices and Applications (II)	LM104B / 1F
10:45-12:15	S04. Quantum Optics and Information	LM104C / 1F
10:45-12:15	T05. Optical Communication and Sensing Technologies (II)	LM101A / 1F
10:45-12:15	S09. Silicon Photonics (III)	LM105 / 1F
12:00-13:30	Lunch	
Technical Sessions		
13:30-15:30	S10. Computational Imaging (III)	LM103A / 1F
13:30-15:20	W01. Workshop on Advanced Specialty Optical Fiber and Applications	LM103B / 1F
13:30-15:00	T02. Photonics for Ocean (III)	LM103C / 1F
13:30-15:30	W02. Workshop on Optical Sensing for Safety	LM104A / 1F
13:30-15:30	T06. Photonic Integration (I)	LM104B / 1F
13:30-15:30	S03. Metamaterials and Photonic Crystals (I)	LM104C / 1F
13:30-16:00	T05. Optical Communication and Sensing Technologies (III)	LM101A / 1F

13:20-15:50	S02. Optical Communication and Networks (II)	LM105 / 1F
15:30-15:45	Coffee Break	
Technical Sessions		
16:00-17:40	S10. Computational Imaging (IV)	LM103A / 1F
15:35-17:20	W01. Workshop on Advanced Specialty Optical Fiber and Applications	LM103B / 1F
15:10-18:10	T02. Photonics for Ocean (IV)	LM103C / 1F
16:00-18:00	W02. Workshop on Optical Sensing for Safety	LM104A / 1F
16:00-18:00	T06. Photonic Integration (II)	LM104B / 1F
16:00-18:00	S01. Laser Technology (I)	LM104C / 1F
16:30-18:00	T01. Mid Infrared Lasers and their Applications	LM101A / 1F
16:00-18:00	S06. Optoelectronic Devices and Applications (III)	LM105 / 1F
18:30-21:00	Banquet	

September 11, 2026 | Friday

Technical Sessions		
Time	Activities	Venue
09:00-11:30	S03. Metamaterials and Photonic Crystals (II)	LM102A / 1F
09:00-10:30	S10. Computational Imaging (V)	LM103A / 1F
09:00-10:15	S01. Laser Technology (II)	LM104A / 1F
09:00-10:30	S03. Metamaterials and Photonic Crystals (III)	LM103C / 1F
09:00-11:30	S09. Silicon Photonics (IV)	LM103B / 1F
09:00-10:30	S05. Fiber-Based Technologies and Applications (I)	LM104B / 1F
09:00-10:30	S06. Optoelectronic Devices and Applications (IV)	LM104C / 1F
09:00-10:30	T05. Optical Communication and Sensing Technologies (IV)	LM101A / 1F
09:00-10:30	T04. Automotive Optoelectronics (II)	LM105 / 1F
09:00-10:15	S01. Laser Technology (III)	LM101B / 1F
09:00-11:00	T03. Optoelectronics EDA Software	LM106 / 1F
10:30-10:45	Coffee Break	
Technical Sessions		
10:45-12:05	S10. Computational Imaging (VI)	LM103A / 1F
10:45-12:00	S03. Metamaterials and Photonic Crystals (IV)	LM103C / 1F
10:45-12:15	S09. Silicon Photonics (V)	LM104A / 1F
10:45-12:15	S05. Fiber-Based Technologies and Applications (II)	LM104B / 1F
10:45-12:15	S06. Optoelectronic Devices and Applications (V)	LM104C / 1F
10:45-11:45	T05. Optical Communication and Sensing Technologies (IV)	LM101A / 1F
10:45-12:00	T04. Automotive Optoelectronics (III)	LM105 / 1F
10:45-12:15	S06. Optoelectronic Devices and Applications (VI)	LM101B / 1F
11:15-12:15	S08. Data Center Optical Interconnects and Networks	LM106 / 1F
11:30-12:15	Online Session	LM103B / 1F
12:00-13:30	Lunch	

PLENARY SPEAKERS



September 9, 2026 | South Ballroom A (Mangrove Hall A) /2F

Hongbo Sun

Academician of the Chinese Academy of Sciences
Tsinghua University, China

Bio.: Hong-Bo Sun received BS/PhD degrees in electronics from Jilin University, China, in 1992/1996. He worked as postdoctoral researcher at the University of Tokushima (1996-2000), assistant professor at Osaka University (2000-2006), Changjiang professor at Jilin University (2006-2017) and Tsinghua University since 2017. His research interest is ultrafast laser manufacturing. So far, he has published over 600 papers in above fields, which are cited for 45000+ times, and H factor is 102, according to ISI search report. He is CAS academician, IEEE, OSA, SPIE, COS and CSOE fellow, editor-in-chief of Photonix, and executive editor-in-chief of Light Science and Applications.

Speech Title: Sub-10 nm Resolution in 3D Ultrafast Laser Manufacturing

Abstract: Existing nanofabrication technologies typically require tools with nanoscale feature sizes (such as cutting edge thickness, tip dimensions, or particle beam diameters) or templates to interact directly with the workpiece to achieve nanoscale resolution. In contrast, photons, as a direct processing medium, offer unique advantages over physical tools, including flexibility and the absence of wear. However, the processing precision defined by the optical diffraction limit (approximately 550 nm for visible light) needs to be improved by an order of magnitude to meet the requirements of true nanofabrication. This report presents our research on utilizing femtosecond lasers for nonlinear manipulation of light-matter interactions, achieving three-dimensional fabrication with sub-10 nm resolution in additive, subtractive, and modification manufacturing. We have also made progress in photonic quantum integrated devices, such as integrated Rydberg-atom field detectors. The technology is expected to find important applications in optical interconnects for electronic chip integration, 3D photonic integration, and quantum integrated systems. Applications spanning from intelligent micro/nano-robots to photonic quantum integrated chips will also be introduced.



PLENARY SPEAKERS



September 9, 2026 | South Ballroom A (Mangrove Hall A) /2F

Roman Romashko

Corresponding Member of Russian Academy of Sciences
Far Eastern Branch of Russian Academy of Sciences, Russia

Bio.: Roman Romashko received the M.S. degree in condensed matter physics from the Moscow Engineering Physics Institute, Moscow, Russia, in 1995, the Ph.D. degree in measurement and control systems from Far-Eastern Federal University, Russia, in 2002, and Dr.Sc. degree in laser physics from the Institute of Automation and Control Processes, Far East Branch of the Russian Academy of Sciences (IACP FEB RAS), Vladivostok, Russia, in 2011. During 2004-2009 he was a visiting researcher at the University of Eastern Finland and at the Korea Electronics Technology Institute where he worked on adaptive interferometry, and dynamic and digital holography.

Since 2004 he works at the IACP FEB RAS as senior, leading, and chief researcher, and then, in 2019, he became a director of the IACP FEB RAS. Since 2010, he is professor of the Polytechnic Institute at the Far-Eastern Federal University, Vladivostok, Russia. In 2016 he was elected as a Corresponding Member of the Russian Academy of Sciences.

His research interest includes holography and interferometry, optical measurement and sensory systems, optoelectronics, photonics, and optical information processing, biomedical imaging. He is author of more than 270 scientific papers, including 3 monographies and 13 patents.

Prof. R. Romashko is a member of IEEE and IEEE Photonics Society.

Speech Title: Adaptive Holographic Interferometry as An Ultra-High Sensitivity Tool for Precision Measurements

Abstract: A laser interferometer is a quite promising and the most accurate technique for the detection and measurement of ultra-weak physical quantities on the pico- and even femtometer scale. However, owing to their high sensitivity, interferometric systems become open to the influence of the environment, which is usually quite unstable (due to temperature drift, accidental mechanical impacts, etc.) As a result, it becomes very difficult or even impossible to use the interferometer outside a laboratory for measurements. In turn, the use of dynamic holograms continuously recorded in a photorefractive crystal can make the interferometric measurement systems adaptive to slow temporal changes in the environment, providing their stable operation.

The report presents a review of recent achievements at IACP FEB RAS in the development of adaptive interferometry techniques based on dynamic photorefractive holography. Novel approaches for building fast and efficient adaptive interferometers, as well as multichannel adaptive holographic measurement systems with up to 10,000 channels, are proposed, developed, and studied. Experimental results of the practical use of advanced adaptive interferometry techniques for nanometrology, biosensing, NDT, acoustic measurements, and other applications are presented and discussed.



PLENARY SPEAKERS



September 9, 2026 | South Ballroom A (Mangrove Hall A) /2F

Qionghua Wang

Beihang University, China

Bio.: Qiong-Hua Wang is currently a professor of optics at Beihang University. She was a professor at Sichuan University from 2004 to 2018. She was a research scientist at the School of Optics/CREOL, the University of Central Florida from 2001 to 2004. She was a faculty member at the University of Electronic Science and Technology of China (UESTC) from 1995 to 2001. She received B. S., M. S. and Ph. D. degrees from UESTC in 1992, 1995 and 2001, respectively. She has authored over 400 peer-reviewed papers indexed in the Science Citation Index and three books, and holds approximately 200 U.S. and Chinese patents. She is a Fellow of SID, OPTICA, SPIE, COS and CSOE, and also serves on the editorial board or as an associate editor for journals including Photonix and the Journal of the Society for Information Display. Her research interests include display and imaging technologies.

Speech Title: High-performance Light Field 3D Display

Abstract: 3D display technology plays a vital role in the information era. Unlike conventional stereoscopic displays, light field 3D display eliminates the issue of visual fatigue, making it a particularly promising candidate in the field. This talk provides a comprehensive overview of light field 3D display, and introduces in detail two systems developed by our team: a desktop light field 3D display and a high-resolution light field 3D display. The former delivers impressive 3D performance with a full 360° horizontal viewing angle, while the latter achieves exceptional image quality with enhanced resolution. We will elaborate on the system architecture, operational principles, and performance characteristics of both displays. In addition, I will briefly present our other ongoing research, including holographic 3D displays with wide viewing angles, electrowetting liquid lenses, and a continuous optical zoom microscope based on liquid lens.



TECHNICAL SESSIONS / Sep. 9, 2026

W03. PhotoniX Life Workshop on Life Science and Application

Session Chair: Xiuyun Liu, Tianjin University, China

Time	13:00-15:10 September 9, 2026	Venue	LM103C / 1F
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13:00-13:10	Welcome Speech
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Session 1: Neurophotronics

Session Chair: Xiuyun Liu, Tianjin University, China

Invited Talks

13:10-13:30	Title: Mechanism Study on the Role of Photobiomodulation in Regulating Cognitive Function in Sleep-Deprived Mice Speaker: Hongli Chen, Peking Union Medical College, China
13:30-13:50	Title: On-Chip Optical Brain-Computer Interface Technology for Low-Power and Adaptive Computing Speaker: Lili Gui, Beijing University of Posts and Telecommunications
13:50-14:10	Title: Innovations and Applications of Miniaturized Multiphoton Brain Imaging Speaker: Chunzhu Zhao, Peking University

Session 2: Photoacoustic Imaging

Session Chair: Peng Huang, Shenzhen University, China

Invited Talks

14:10-14:30	Title: Three-dimensional Photoacoustic Imaging with Rotated Row-Column-Addressed Array Speaker: Xiran Cai, ShanghaiTech University
14:30-14:50	Title: Research on Transcranial and Transosseous Photoacoustic Detection Method Speaker: Ting Feng, Fudan University
14:50-15:10	Title: High Spatiotemporal Resolution 3D Multi-mode Echocardiography Speaker: Diya Wang, Xi'an Jiaotong University
15:10-15:35	Coffee Break
15:35-17:30	PhotoniX Life Editorial Board Meeting (By Invitation Only)

T04. Automotive Optoelectronics (I)

Session Chair: Haining Yang, Southeast University, China

Time	13:30-16:30 September 9, 2026	Venue	LM105 / 1F
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Invited Talks

13:30-14:00	Title: Silicon-based Optical Phased Arrays: Towards Advanced Beam-forming and Lower Power Speaker: Wei Jiang, Nanjing University
14:00-14:30	Title: CMOS Single Photon Avalanche Diodes for Biomedical Imaging Applications Speaker: Wei Jiang, The Hong Kong University of Science and Technology (Guang Zhou)
14:30-15:00	Title: Holographic 3D AR-HUD Speaker: Yuanbo Deng, Nanjing ReaVis Technology Co., Ltd.
15:00-15:30	Title: 3D HUD Technologies Speaker: Juan Liu, Beijing Institute of Technology
15:30-16:00	Title: Study on Polarization Volume Grating (PVG) for Head-up Displays Speaker: Yuning Zhang, Southeast University
16:00-16:30	Title: A Novel Actuators for Next-Generation Wafer Scanners Speaker: Yang Liu, Harbin Institute of Technology



TECHNICAL SESSIONS / Sep. 10, 2026

S10. Computational Imaging (I)

Session Chair: Chao Zuo, Nanjing University of Science and Technology, China

Time	09:00-10:30 September 10, 2026	Venue	LM103A / 1F
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Invited Talks

09:00-09:30	Title: Strong Femtosecond and Attosecond Light Source for Coherent Diffraction Imaging Speaker: Yuxi Fu, State Key Lab of Ultrafast Optical Science and Technology, Xi'an Inst. of Optics and Precision Mechanics of CAS
09:30-10:00	Title: Recent Advances in Single-Shot Computational Ultrafast Imaging Speaker: Jingdan Liu, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences
10:00-10:30	Title: AI-enabled Single-Particle Imaging with Ultrafast X-ray Free-Electron Lasers Speaker: Zhibin Sun, ShanghaiTech University

S09. Silicon Photonics (I)

Session Chair: Mingbin Yu, Bei Jing Yan Dong Microelectronic Technology Co., Ltd., China

Time	09:00-10:30 September 10, 2026	Venue	LM103B / 1F
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Invited Talks

09:00-09:30	Title: Silicon Photonic Innovations for Enhanced FMCW LiDAR: Devices, Modules and Engines Speaker: Jing Wang, Southern University of Science and Technology
09:30-10:00	Title: Fabrication Techniques for Thin-Film Barium Titanate Photonic Devices: Progress and Challenges Speaker: Yuan Dong, Shanghai University
10:00-10:30	Title: Silicon Electronic-Photonic Integration Technology and Applications Speaker: Yan Yang, Institute of Microelectronics, Chinese Academy of Sciences



T02. Photonics for Ocean (I)

Session Chair: Qi Wu, Harbin Institute of Technology, China; Southern Marine Science and Engineering Guangdong Laboratory (Guangzhou), China

Time	09:00-10:00 September 10, 2026	Venue	LM103C / 1F
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Invited Talks

09:00-09:30	Title: Digital Optical Fiber Underwater Sensing Array in Deep Ocean Speaker: Fuyin Wang, National University of Defense Technology
09:30-10:00	Title: Small-scale Fluorescence Spectroscopy Rapid Identification System for Marine Environmental Monitoring Speaker: Zhaoshuo Tian, Harbin Institute of Technology (Weihai)

S07. Biophotonics and Optical Biomedicine (I)

Session Chair: Jinna Chen, Southern University of Science and Technology, China

Time	09:00-10:30 September 10, 2026	Venue	LM104A / 1F
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Invited Talks

09:00-09:30	Title: Evaluation of Transplant Organ Viability with Optical Coherence Tomography Speaker: Yu Chen, Fujian Normal University
09:30-10:00	Title: Advancing Photoacoustic–Ultrasound Imaging for Breast Cancer: From Biochemical Mapping to Clinical Translation Speaker: Ruochong Zhang, A*STAR Skin Research Labs
10:00-10:30	Title: Graphene Ultra-wideband Terahertz Fingerprint Enhancement Sensing Speaker: Bingwei Liu, University of Shanghai for Science and Technology



S06. Optoelectronic Devices and Applications (I)

Session Chair: Wenjun Ni, South-Central Minzu University, China

Time	09:00-10:30 September 10, 2026	Venue	LM104B / 1F
Invited Talks			
09:00-09:30	Title: Reconfigurable Microfluidic Platform Speaker: Jiu-An Lv, Westlake University		
09:30-10:00	Title: From Narrowband to Multi-Color: Engineering Spectrally Selective Organic Photodetectors Speaker: Vincenzo Pecunia, Simon Fraser University		
10:00-10:30	Title: 10-MW-Level, Compact and Efficient Deep-Ultraviolet Generation in a Resonance-Free Hollow-Core Fiber Speaker: Daiqi Xiong, Beihang University		

T07: Photonic Sensing

Session Chair: Tianye Huang, China University of Geosciences (Wuhan), China

Time	09:00-10:30 September 10, 2026	Venue	LM104C / 1F
Invited Talks			
09:00-09:30	Title: Development of a High-Speed Optical Complex Spectrum Analyzer Speaker: Qingwen Liu, Shanghai Jiao Tong University		
09:30-10:00	Title: Advanced Optical Fiber Sensing and Its Geoscience Applications Speaker: Jing Zhang, China University of Geosciences (Wuhan)		
10:00-10:30	Title: Research on Cycle of Cytosensor and Photothermal Therapy Based on Cascaded Ω Shaped Optical Fibers Speaker: Zewei Luo, Sichuan University		



T05. Optical Communication and Sensing Technologies (I)

Session Chair: Yixiao Zhu, Shanghai Jiao Tong University, China

Time	09:00-10:30 September 10, 2026	Venue	LM101A / 1F
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Invited Talks

09:00-09:30	Title: Integrated Sensing and Communication From PTP to PTMP Networks Speaker: Yixiao Zhu, Shanghai Jiao Tong University
09:30-10:00	Title: Optical Wireless Integrated Sensing and Communication Systems Speaker: Hongyan Fu, Tsinghua University
10:00-10:30	Title: High-Speed Optical Interconnects for AI Infrastructure Speaker: Xiaodan Pang, Zhejiang University

S09. Silicon Photonics (II)

Session Chair: Qize Zhong, Shanghai University, China

Time	09:00-10:30 September 10, 2026	Venue	LM105 / 1F
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Invited Talks

09:00-09:30	Title: Silicon Photonics Modulators and Photodetectors for Single-Lane 400-Gbps Optical Interconnects Speaker: Xiao Hu, Zhangjiang Laboratory
09:30-10:00	Title: 300mm Silicon Photonics Platform in the Era of Optical Interconnect Speaker: Siyang Liu, Wuhan Wuyue Optoelectronic Technology
10:00-10:30	Title: Novel Silicon Photonic Devices for Gas Sensing Speaker: Zhenzhou Cheng, Tianjin University



S10. Computational Imaging (II)

Session Chair: Chao Zuo, Nanjing University of Science and Technology, China

Time	10:45-12:05 September 10, 2026	Venue	LM103A / 1F
Invited Talks			
10:45-11:15	Title: Dynamic Multispectral Microscopy for Tracking and Computational Analysis Speaker: Hao Sha, Harbin Institute of Technology (Shenzhen)		
11:15-11:45	Title: Incorporating Single-Shot Measurement to Generate Realistic Simulation Data for Deep Learning in 3D Holographic Particle Fields Speaker: Ping Su, Tsinghua Shenzhen International Graduate School		
Oral Information			
11:45-12:05	Paper ID: 8793 Title: High Spatiotemporal Throughput and High Precision Quantitative Phase Imaging Based on Kramers-Kronig Relations Presenter: Qian Shen, Nanjing University of Science and Technology		

S02. Optical Communication and Networks (I)

Session Chair: Xiaodan Pang, Zhejiang University, China

Time	10:45-12:15 September 10, 2026	Venue	LM103B / 1F
Invited Talks			
10:45-11:15	Title: Key Technologies and System Verification for Ultraviolet Communication Speaker: Tao Yang, Beijing University of Posts and Telecommunications		
11:15-11:45	Title: Optical Fiber Distributed Acoustic Sensing for Traffic Monitoring and other metropolitan smart city applications Speaker: Alan Pak Tao Lau, The Hong Kong Polytechnic University		
11:45-12:15	Title: Optical Encoding and QKD for High Speed Secure Optical Communication Speaker: Xu Wang, National University of Ireland Maynooth		



T02. Photonics for Ocean (II)

Time 10:30-12:00 September 10, 2026

Venue LM103C / 1F

Invited Talks

Session Chair: Fuyin Wang, National University of Defense Technology

10:30-11:00

Title: Photonics for Multi Parameter Oceanographic Sensors

Speaker: Qi Wu, 1. Southern Marine Science and Engineering Guangdong Laboratory (Guangzhou), Guangzhou, China. 2. School of Sciences and Qingdao Research Institute, Harbin Institute of Technology

11:00-11:30

Title: Practical Implementation of Underwater Wireless Optical Communication

Speaker: Jing Xu, Zhejiang University

Session Chair: Liyang Shao, Southern University of Science and Technology

11:30-12:00

Title: Multidisciplinary Integration-Driven Underwater LiDAR: From Single-Scene Detection to Cross-Domain Perception

Speaker: Guojun Wu, Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences; Laoshan National Laboratory

S07. Biophotonics and Optical Biomedicine (II)

Session Chair: Yu Chen, Fujian Normal University, China

Time 10:45-12:15 September 10, 2026

Venue LM104A / 1F

Invited Talks

10:45-11:15

Title: Optical Intraocular Pressure Monitoring System With AI

Speaker: Heming Wei, Shanghai University

11:15-11:45

Title: Optical Micromanipulation: From in Vitro Trapping to in Vivo Actuation

Speaker: Hongbao Xin, Jinan University

11:45-12:15

Title: Excitation-Encoded Volumetric Spectroscopy for Fast Multiplexed Imaging and Quantitative Physicochemical Mapping in Whole Cells

Speaker: Kun Chen, University of Electronic Science and Technology of China

S06. Optoelectronic Devices and Applications (II)

Session Chair: Huizi Li, Shanghai Institute of Microsystem and Information Technology, CAS, China

Time	10:45-12:15 September 10, 2026	Venue	LM104B / 1F
Invited Talks			
10:45-11:15	Title: All GaN 2T1C-microLED Active-Matrix Display Pixel with a MHz-level Switching Speed Speaker: Yuefei Cai, Southern University of Science and Technology		
11:15-11:45	Title: Integrated acousto-optic modulators on thin-film lithium niobate and lithium tantalate Speaker: Xiankai Sun, The Chinese University of Hong Kong		
11:45-12:15	Title: Task-hardware co-optimization for universal low-power programmable integrated photonic neural accelerators Speaker: Ang Li, Nanjing University of Aeronautics and Astronautics		

S04. Quantum Optics and Information

Session Chair: Yiyang Luo, Chongqing University, China

Time	10:45-12:15 September 10, 2026	Venue	LM104C / 1F
Invited Talks			
10:45-11:15	Title: Rydberg Atomic Microwave Sensing for Electronic Reconnaissance: Challenges and Considerations Speaker: Fan Jiang, National Laboratory of Electromagnetic Space Security		
11:15-11:45	Title: Efficient Integrated Quantum Memory for Light Speaker: Ruoran Meng, University of Science and Technology of China		
Oral Information			
11:45-12:00	Paper ID: 9549 Title: Design and Research on Magnetorheological Polishing Machine with Dual-swing Axis for High-gradient Optical Elements Presenter: Shuang Cai, Hunan University		
12:00-12:15	Paper ID: 9746 Title: Noise Resilience of Quantum Support Vector Machine with Selected Feature Maps Presenter: Muhammad Faryad, Lahore University of Management Sciences		



T05. Optical Communication and Sensing Technologies (II)

Session Chair: Xianqing Jin, Great Bay University, China

Time	10:45-12:15 September 10, 2026	Venue	LM101A / 1F
Invited Talks			
10:45-11:15	Title: Optoelectronic Intelligent Computing Based on Optical Communication Devices and Technologies Speaker: Yunping Bai, Beijing University of Posts and Telecommunications		
11:15-11:45	Title: Machine Learning-Based Modeling for Coherence Ultrafast Photonics Speaker: Yuan Luo, The Chinese University of Hong Kong (Shenzhen)		
11:45-12:15	Title: Constraint-Aware Interference Cancellation for IMDD-PON Uplinks Speaker: Xianqing Jin, Great Bay University		

S09. Silicon Photonics (III)

Session Chair: Shuai Liu, National Optoelectronics Innovation Center, China

Time	10:45-12:15 September 10, 2026	Venue	LM105 / 1F
Invited Talks			
10:45-11:15	Title: Nonlinear Topological Routing Enabled by Stimulated Brillouin Scattering Speaker: Feng He, Harbin Institute of Technology (Shenzhen)		
11:15-11:45	Title: Platform Evolution for Optical Modulators in AI Datacenter Networks Speaker: Kensuke Ogawa, Innovation & Research Center, Shenzhen Yuto Packaging Technology Co. Ltd		
Oral Information			
11:45-12:00	Paper ID: 9678 Title: Stable Microcomb Operation in a Lensed Fiber-Packaged Silicon Nitride Microring from 233 K to Room Temperature Presenter: Xiaofan Ma, Shanghai University		
12:00-12:15	Paper ID: 7897 Title: Compact and low loss subwavelength grating - assisted trident SOI edge coupler working at O band wavelengths Presenter: Yifei Song, Shanghai University		



S10. Computational Imaging (III)

Session Chair: Fucai Zhang, Southern University of Science and Technology, China

Time	13:30-15:30 September 10, 2026	Venue	LM103A / 1F
Invited Talks			
13:30-14:00	Title: Towards 1 nm Resolution: Computational 3D X-ray Imaging of Microchips Speaker: Tomas Aidukas, EPFL, PSI		
14:00-14:30	Title: Mueller Matrix Ptychography for Optical Anisotropies Speaker: Honggang Gu, Huazhong University of Science & Technology		
14:30-15:00	Title: Deep Learning-Enabled Rapid 3D X-ray Coherent Diffraction Imaging: Methods and Applications Speaker: Yudong Yao, ShanghaiTech University		
15:00-15:30	Title: Atomic-scale Imaging of Nanoporous Materials with Electron Ptychography Speaker: Hui Zhang, South China University of Technology		

W01. Workshop on Advanced Specialty Optical Fiber and Applications

Session Chair: Zhenggang Lian, Yangtze Optical Electronics Co., Ltd., China

Time	13:30-15:20 September 10, 2026	Venue	LM103B / 1F
13:30-13:40	Welcome Speech Zhenggang Lian, Yangtze Optical Electronics Co., Ltd., China		
Invited Talks			
13:40-14:20	Title: Hollow-Core PCF: Specialty fiber and AI-scale Datacom Fiber Speaker: Fetah Benabid, GPPMM group, XLIM Research Institute, CNRS-Université de Limoges, FranceGLOphotonics SAS, Université de Limoges FST Campus, Limoges, France		
14:20-14:50	Title: Pushing the limits: From UV Performance to Advanced Fiber Geometries for Emerging Applications Speaker: Markus Roehner, CeramOptec/Biolitec, Managing Director		
14:50-15:20	Title: Inverse Fiber Design Supporting Circular Super-Gaussian Modes Speaker: Fei Yu, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences		



PLENARY SPEAKER



Fetah Benabid

Professor and CNRS director of research
GPPMM group, XLIM Research Institute, CNRS UMR7252,
Université de Limoges, Limoges, France
GLOphotronics Founder/CTO

Bio.: Fetah Benabid is a CNRS director of research and honorary professor at Western Australia (Australia). He is the group founder and leader of Gas-Phase Photonic and Microwave Materials (GPPMM) at the CNRS UMR Xlim, Limoges, France. Fetah Benabid has pioneered the development of hollow-core photonic crystal fibres (HC-PCF) and their incorporation into scientific and technological applications. He is the inventor of Kagome HC-PCF and an all-fibre gas cells, coined photonic microcell (PMC). He is the inceptor of new optical guidance mechanism called inhibited coupling optical guidance that led to low loss optical fiber with negative curvature core-contour, and the “photonic tight-binding model” to explain the formation of photonic bandgap in photonic crystal fibres. He is the inceptor of a new mechanism of molecular trapping and gas nano-structuring. Fetah Benabid research interests covers guided photonics and gas-phase photonics. Fetah Benabid is also the founder and NE-CSTO of GLOphotronics, market leader in hollow-core fibers for industrial applications.

Speech Title: Hollow-Core PCF: Specialty Fiber and AI-Scale Datacom Fiber

Abstract: Since their emergence as a scientific concept, hollow-core photonic crystal fibers (HCPCFs) have evolved from a fascinating curiosity into both a versatile platform for unique gas-based photonic devices and a compelling candidate for next-generation datacom and telecom transmission.

Through a historical account of this evolution, this talk will highlight the remarkable synergy between three interconnected drivers: fundamental science, fabrication technology, and applications. Advances in understanding how light can be confined and guided in a hollow core inspired new fiber structures and guidance mechanisms. In parallel, innovations in fabrication enabled increasingly sophisticated designs to be fabricated with greater precision and control. These advances opened new application opportunities, whose requirements and challenges, in turn, stimulated further developments in fiber science and technology. This continuous feedback between understanding, making, and applying HCPCFs has driven extraordinary progress in their performance and capabilities.

The talk will trace how this interplay enabled HCPCFs to develop along two major directions: as a platform for unique and varied light–gas interactions and novel photonic devices, and as an ultra-low-nonlinearity, low-latency transmission medium with rapidly decreasing loss. The latter is now bringing HCPCFs into the performance regime required by the unprecedented demands from artificial intelligence and hyperscale data centers for faster, higher-capacity, and more energy-efficient data transport. The talk will conclude with the remaining scientific and industrial challenges and the pathway toward widespread HCPCF deployment in future communication systems.

T02. Photonics for Ocean (III)

Time 13:30-15:00 September 10, 2026

Venue LM103C / 1F

Invited Talks

Session Chair: Liyang Shao, Southern University of Science and Technology

13:30-14:00

Title: Time-Resolved Stokes Polarimetric Imaging Through Scattering Media
Speaker: Zijong Zhang, Harbin Institute of Technology

Session Chair: Guojun Wu, Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences; Laoshan National Laboratory

14:00-14:30

Title: Submarine Distributed Acoustic Sensing for Ocean Observation and Monitoring
Speaker: Bin Luo, Southern University of Science and Technology

14:30-15:00

Title: High-Accuracy and Low-Cost Multiparameter Interrogation Based on AI Enabled Photonics for Marine Applications
Speaker: Zhengyong Liu, Sun Yat-sen University

W02. Workshop on Optical Sensing for Safety

Session Chair: Dongmei Huang, The Hong Kong Polytechnic University, China

Time 13:30-15:30 September 10, 2026

Venue LM104A / 1F

Invited Talks

13:30-14:00

Title: Stress-Induced Self-Assembled Microstructured Fibers for Robotic Sensing Applications
Speaker: Kaiwei Li, Jilin University

14:00-14:30

Title: High-Resolution Optical Coherence Tomography for Disease Diagnosis
Speaker: Linbo Liu, Guangzhou Laboratory

14:30-15:00

Title: Breaking the Dynamic Range – Bandwidth Trade-off in Distributed Acoustic Sensing Using OPD-Based Interferometric Demodulation
Speaker: Hongkun Zheng, Northeastern University

15:00-15:30

Title: Distributed Fiber-Optic Sensing Reveals Typhoon-Driven Seabed Transformation and Submarine Cable Failure
Speaker: Yongkang Dong, Harbin Institute of Technology



T06. Photonic Integration (I)

Session Chair: Hao Wang, Beihang University, China

Time	13:30-15:30 September 10, 2026	Venue	LM104B / 1F
Invited Talks			
13:30-14:00	Title: 3D-Printed Optical Nanopixel Speaker: Shiqi Hu, Pohang University of Science and Technology (POSTECH)/Korea Advanced Institute of Science and Technology (KAIST)		
14:00-14:30	Title: Photonic Glass and Applications Speaker: Dezhi Tan, Zhejiang University		
14:30-15:00	Title: Chip-Integrated Computational Optical Sensing: From Robust Spectroscopy to High-Dimensional Imaging Speaker: Xiaoxin Li, Hangzhou International Innovation Institute of Beihang University		
15:00-15:30	Title: Femtosecond Laser-Enabled Photonic Integration for Multifunctional Microrobots Speaker: Bing Han, Shanghai Jiao Tong University		

S03. Metamaterials and Photonic Crystals (I)

Session Chair: Feng Li, Xi'an Jiaotong University, China

Time	13:30-15:30 September 10, 2026	Venue	LM104C / 1F
Invited Talks			
13:30-14:00	Title: Optical Corner Detection Imaging Speaker: Chen Chen, Nanjing University		
14:00-14:30	Title: Quantum Terahertz Detection in Two-Dimensional Electron Gases via the In-Plane Photoelectric Effect Speaker: Ran Chen, Institute of Process Engineering, Chinese Academy of Sciences		
14:30-15:00	Title: High Efficiency BIC Metasurface for Terahertz Beam Deflection Speaker: Junxing Fan, Shenzhen Institute for Advanced Study, University of Electronic Science and Technology of China		
15:00-15:30	Title: Overcoming Adiabatic Limitations in Topological Photonic Waveguides Speaker: Wange Song, Nanjing University		



T05. Optical Communication and Sensing Technologies (III)

Session Chair: Xiang Li, China University of Geoscience (Wuhan)

Time	13:30-16:00 September 10, 2026	Venue	LM101A / 1F
Invited Talks			
13:30-14:00	Title: Phase Noise Characterization and Optimization Strategies for Terahertz OFDM Systems Speaker: Bowen Liu, Keio University		
14:00-14:30	Title: EPDA and System Platform for 400G/Lane Optical Interconnects Speaker: Lu Zhang, Zhejiang University		
14:30-15:00	Title: Fiber Optic Biosensors: From Single Molecule Detection to Theranostics Speaker: Yunyun Huang, Jinan University		
15:00-15:30	Title: Polarization Sensing in Fiber Transmission System Speaker: Xiang Li, China University of Geoscience (Wuhan)		
15:30-16:00	Title: Quantization-Aware Equalization for High-Speed IM/DD Optical Interconnects Speaker: Zhaopeng Xu, Pengcheng Laboratory		

S02. Optical Communication and Networks (II)

Session Chair: Roman Romashko, Far Eastern Branch of Russian Academy of Sciences, Russia

Time	13:20-15:50 September 10, 2026	Venue	LM105 / 1F
Invited Talks			
13:20-13:50	Title: Multicast-Capable Optical Circuit Switching and Communication Scheduling for Efficient Collective Communications Speaker: Lihua Ruan, Pengcheng Laboratory		
13:50-14:20	Title: Bionic Optical Communication, Biological Optical AI and Natural Biological Diodes and Transistors Speaker: Anhui Liang, Yango University		
14:20-14:50	Title: Evolution and Prospects of Networking Technologies for QKD-Based Optical Networks Speaker: Xiaosong Yu, Beijing University of Posts and Telecommunications		
14:50-15:20	Title: Picking Up a Factor of 2 for IM/DD Transmission with Polarization Tracking Speaker: Kangping Zhong, The Hong Kong Polytechnic University		
15:20-15:50	Title: Silicon Photonic Advanced Direct Detection Receiver for Optical Interconnects Speaker: Jingchi Li, Shanghai Jiao Tong University		



S10. Computational Imaging (IV)

Session Chair: Fucai Zhang, Southern University of Science and Technology, China

Time	16:00-17:40 September 10, 2026	Venue	LM103A / 1F
Invited Talks			
16:00-16:30	Title: Coherent Diffraction Imaging with Broadband Illumination Speaker: Huixiang Lin, Institute of Advanced Light Source Facilities, Shenzhen		
16:30-17:00	Title: Computational Optical Imaging in Neuromorphic Sensing and Digital Holography Speaker: Edmund Lam, The University of Hong Kong		
Oral Information			
17:00-17:20	Paper ID: 1003 Title: Improving Accuracy for Scene Text Recognition in Compound Degraded Images via Video Restoration and Perceptual Loss Presenter: Tomio Goto, Nagoya Institute of Technology		
17:20-17:40	Paper ID: 9232 Title: On the Generalization of Radiative Gaussian Splatting for Digital Rock CT Reconstruction Presenter: Luovuan Liao, The University of Queensland		

W01. Workshop on Advanced Specialty Optical Fiber and Applications

Session Chair: Zhenggang Lian, Yangtze Optical Electronics Co., Ltd., China

Time	15:35-17:20 September 10, 2026	Venue	LM103B / 1F
Invited Talks			
15:35-16:00	Title: Long-Distance Distributed Fiber-Optic Sensing Using Forward Transmission and Specialty Fibers Speaker: George Y. Chen, Shenzhen University		
16:00-16:25	Title: Quantum Sensors Inside Hollow-Core Fibers Speaker: Wei Li, Beihang University, Tianmushan Laboratory		
16:25-16:50	Title: Specialty Optical Fiber Technologies and Applications Across Multiple Domains Speaker: Wei Gao, Yangtze Optical Electronics Co., Ltd.		
16:50-17:20	Launch Event for Device-Grade Polarization-Maintaining Fiber Technology and Mass-Production Achievements Zhenggang Lian; Yangtze Optical Electronics Co., Ltd.		



T02. Photonics for Ocean (IV)

Time 15:10-18:10 September 10, 2026

Venue LM103C / 1F

Invited Talks

Session Chair: Zhaoshuo Tian, Harbin Institute of Technology (Weihai)

15:10-15:40

Title: Progress on Flexible and Self-Powered Sensors for Marine Environmental Monitoring

Speaker: Yang Yang, Harbin Institute of Technology, Shenzhen

15:40-16:10

Title: A Novel Anti-Interference Lidar

Speaker: Wenbo Sun, CICORE

Session Chair: Jing Xu, Zhejiang University

16:10-16:40

Title: High-Throughput Marine Particle Classification by Polarized Light Scattering

Speaker: Ran Liao, Southern University of Science and Technology

16:40-17:10

Title: Study on the Toxicity Discrimination and Sensor of Red Tide Algae Based on Three-Dimensional Fluorescence Spectrum

Speaker: Weihong Bi, ZhongShan Institute of Changchun University of Science and Technology, Changchun, China; Ocean Research Institute of Yanshan University, Qinhuangdao, China

Session Chair: Weihong Bi, ZhongShan Institute of Changchun University of Science and Technology, Changchun, China; Ocean Research Institute of Yanshan University, Qinhuangdao, China

17:10-17:40

Title: Research on Optical Fiber Sensing Technology for Seawater Dissolved Gas Monitoring

Speaker: Yafei Li, Jinan University

17:40-18:10

Title: Anti-Sunlight Interference Circularly Polarized Hyperspectral Measurement

Speaker: Jiajin Li, CICO Research Global Co., Ltd.

W02. Workshop on Optical Sensing for Safety

Session Chair: Dongmei Huang, The Hong Kong Polytechnic University, China

Time 16:00-18:00 September 10, 2026

Venue LM104A / 1F

Invited Talks

16:00-16:30

Title: Fiber and Waveguide Based Gas Sensors

Speaker: Wei Jin, The Hong Kong Polytechnic University

16:30-17:00

Title: High-Performance Optical Fiber Distributed Acoustic Sensor (DAS)

Speaker: Jun He, Shenzhen University

17:00-17:30

Title: Fiber Sensing Empowers Industrial Safety

Speaker: Xi Liu, Huawei Technologies Co. Ltd

17:30-18:00

Title: Infrastructure Health Monitoring Using DAS and Geophysical Techniques Enhanced by AI Agents

Speaker: Haoran Meng, Southern University of Science and Technology

T06. Photonic Integration (II)

Session Chair: Qifeng Ruan, Harbin Institute of Technology (Shenzhen), China

Time	16:00-18:00 September 10, 2026	Venue	LM104B / 1F
Invited Talks			
16:00-16:30	Title: Parallel Wavelength-Division-Multiplexed Signal Transmission and Dispersion Compensation Enabled by Soliton Microcombs and Microrings Speaker: Yuanbin Liu, Shenzhen University		
16:30-17:00	Title: Manipulation of Epsilon-Near-Zero Platforms towards Applications for Complex Photonic Systems Speaker: Qian Li, Peking University		
17:00-17:30	Title: Micro-Nano Optical Structure-Driven Thin-Film Fluorescence Sensing Speaker: Huizi Li, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences		
Oral Information			
17:30-17:45	Paper ID: 0696 Title: Backside Release Cavity Engineering for Suspended Thin-Film Lithium Niobate Photonics Presenter: Lingfei Li, Shanghai University		
17:45-18:00	Paper ID: 4646 Title: Miniaturized and Arrayed Optomechanical Ultrasonic Sensing Systems for Photoacoustic Applications Presenter: Beibei Li, Institute of Physics, Chinese Academy of Sciences		

S01.Laser Technology (I)

Session Chair: Wei Jiang, Nanjing University, China

Time	16:00-18:00 September 10, 2026	Venue	LM104C / 1F
Invited Talks			
16:00-16:30	Title: Recent Progress in High-Power Short-Wavelength Fiber Lasers Speaker: Wenjia Li, Shenzhen Gongda Laser Co., Ltd.		
16:30-17:00	Title: Surface-Emitting Lasers based on Colloidal Nanocrystals Speaker: Kai Wang, Southern University of Science and Technology		
17:00-17:30	Title: Optical Skyrmions in Single Microcavities Formed by Photonic Spin-Orbit Coupling Speaker: Feng Li, Xi'an Jiaotong University		
17:30-18:00	Title: Advancements in an 171Yb+ Optical Clock: From E3 Probing to Inter-species Comparison Speaker: Yani Zuo, National Institute of Metrology, China		



T01. Mid Infrared Lasers and their Applications

Session Chair: Junqing Zhao, Shenzhen Technology University, China

Time	16:30-18:00 September 10, 2026	Venue	LM101A / 1F
Invited Talks			
16:30-17:00	Title: High Power Ultrafast Laser Sources With Optical Parametric Conversion to the Mid-Infrared Speaker: Junqing Zhao, Shenzhen Technology University		
17:00-17:30	Title: High Power Mid Infrared Fiber Lasers and the Applications Speaker: Chunyu Guo, Shenzhen University, China		
Oral Information			
17:30-17:45	Paper ID: 0569 Title: Real-Time Infrared Gas-Leak Segmentation with SPDConv and CBAM Enhanced YOLO26 for Edge Deployment Presenter: Rui Wang, Jilin University		
17:45-18:00	Paper ID: 5516 Title: Deeply Supervised VGG-UNet++ for Infrared SF6 Gas Leak Segmentation in Power Equipment Presenter: Feng Sun, Jilin University		

S06. Optoelectronic Devices and Applications (III)

Session Chair: Bowen Liu, Keio University, Japan

Time	16:00-18:00 September 10, 2026	Venue	LM105 / 1F
Invited Talks			
16:00-16:30	Title: High-Speed Reconfigurable Silicon Photonic Tensor Processing Engine Speaker: Huifu Xiao, Lanzhou University		
16:30-17:00	Title: Engineering Layered Hybrid Perovskites with DJ and RP Architectures: Pathways to High-Performance Next-Generation Optoelectronics Speaker: Dmitry Shtarev, St. Petersburg State University		
17:00-17:30	Title: Ultra-Wideband Photodetectors for Photonics-Assisted Wireless Communications Speaker: Changzheng Sun, Tsinghua University		
17:30-18:00	Title: Electrically Reconfigurable Mode Chirality in Integrated Microresonators Speaker: Jiawei Wang, Harbin Institute of Technology Shenzhen		



TECHNICAL SESSIONS / Sep. 11, 2026

S03. Metamaterials and Photonic Crystals (II)

Session Chair: Huifang Zhang, University of Electronic Science and Technology of China, China

Time	09:00-11:30 September 11, 2026	Venue	LM102A / 1F
Invited Talks			
09:00-09:30	Title: MEMS-Enabled Electrically Tunable Metasurfaces Speaker: Fei Ding, Eastern Institute of Technology, Ningbo		
09:30-10:00	Title: Optical Encryption Applications Based on Single-Pixel Imaging and Metasurface Imaging Speaker: Hongchao Liu, University of Macau		
10:00-10:30	Title: An Effective Medium Method Description of Bound States in the Continuum in a Planar Photonic Crystal Speaker: Yachao Liu, Shenzhen University		
10:30-11:00	Title: Enhanced Photon Pairs From a Semiconductor Brillouin Zone Folding Metasurface Speaker: Jihua Zhang, Songshan Lake Materials Laboratory		
11:00-11:30	Title: Compact Metasurface Systems for 3D Imaging and Sensing Speaker: Hao Wang, Beihang University		

S10. Computational Imaging (V)

Session Chair: Liangcai Cao, Tsinghua University, China

Time	09:00-10:30 September 11, 2026	Venue	LM103A / 1F
Invited Talks			
09:00-09:30	Title: Generative Diffusion Models and Their Applications in Computational Optical Imaging Speaker: Qiegen Liu, Nanchang University		
09:30-10:00	Title: Intelligent Super-resolution Fluorescence Microscopy Speaker: Chang Qiao, Tsinghua University		
10:00-10:30	Title: Structured Illumination Microscopy for Live-Cell Super-Resolution Imaging Speaker: Jiaming Qian, Nanjing University of Science and Technology		



S01. Laser Technology (II)

Session Chair: Ran Xia, South-Central Minzu University, China

Time	09:00-10:15 September 11, 2026	Venue	LM104A / 1F
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Invited Talks

09:00-09:30	Title: Swept Lasers and the Applications Speaker: Dongmei Huang, The Hong Kong Polytechnic University
09:30-10:00	Title: Breathing Solitons in Mode-Locked Fiber Lasers Speaker: Ran Xia, South-Central Minzu University

Oral Information

10:00-10:15	Paper ID: 1193 Title: Intracavity Gain-Integrated Laser Feedback Interferometric Measurement System Presenter: Yifan Wang, Tsinghua University
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S03. Metamaterials and Photonic Crystals (III)

Session Chair: Longqing Cong, Southern University of Science and Technology, China

Time	09:00-10:30 September 11, 2026	Venue	LM103C / 1F
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Invited Talks

09:00-09:30	Title: Gallium Phosphide Nanodevices for Generation and Control of Gigahertz Hypersonic Waves Speaker: Yi Li, Southern University of Science and Technology
09:30-10:00	Title: Chiral and Polarization Metasurface Devices Based on Symmetry-Breaking Engineering Speaker: Zi-Lan Deng, Jinan University
10:00-10:30	Title: Terahertz Spectral Imaging With Pixelated Nonlocal BIC Metasurfaces Speaker: Guizhen Xu, Southern University of Science and Technology



S09. Silicon Photonics (IV)

Session Chair: Li Zeng, Institute of Semiconductors, CAS, China

Time	09:00-11:30 September 11, 2026	Venue	LM103B / 1F
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Invited Talks

09:00-09:30	Title: Metamaterial-Enabled Integrated Photonic Devices Towards Optical Interconnect Speaker: Yu He, Shanghai Jiao Tong University
09:30-10:00	Title: Heterogeneously Integrated Erbium- Doped Optical Waveguide Amplifiers Speaker: Qingming Chen, Sun Yat-Sen University
10:00-10:30	Title: Integrated Optical Frequency Combs for Next-Generation Multi-Wavelength Light Sources Speaker: Yanjing Zhao, National Optoelectronics Innovation Center
10:30-11:00	Title: AI-Driven Development of Silicon Photonics Process Technology Speaker: Wei Wang, SITRI
11:00-11:30	Title: System-Level Validation of 224G LPO Links Against the OIF CEI-224G-Linear Specification Speaker: Terence Chen, Latitude Design Systems

S05. Fiber-Based Technologies and Applications (I)

Session Chair: Zhixun Wang, Hong Kong Polytechnic University, China

Time	09:00-10:30 September 11, 2026	Venue	LM104B / 1F
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Invited Talks

09:00-09:30	Title: Optical Fiber Monitoring Technology for Shape of Marine Slender Structures Speaker: Ye Tian, Harbin Engineering University
09:30-10:00	Title: Non-Zero Dispersion-Shifted Ring-Core Fibers for Orbital Angular Momentum Modes Speaker: Yang Yue, Xi'an Jiaotong University
10:00-10:30	Title: Advanced Optical Pulse Coding Distributed Optical Fiber Acoustic Sensing System Speaker: Yu Wang, Taiyuan University of Technology



S06. Optoelectronic Devices and Applications (IV)

Session Chair: Changzheng Sun, Tsinghua University, China

Time	09:00-10:30 September 11, 2026	Venue	LM104C / 1F
Invited Talks			
09:00-09:30	Title: Spintronic Terahertz Emission: Material Engineering and Experimental Characterization Speaker: Liang Liu, Shanghai Jiao Tong University		
09:30-10:00	Title: Tantalum Pentoxide Integrated Photonic Devices Speaker: Qiancheng Zhao, Southern University of Science and Technology		
10:00-10:30	Title: Photonic Ising Machines for Solving Combinatorial Optimization Problems Speaker: Wenjia Zhang, Shanghai Jiao Tong University		

T05. Optical Communication and Sensing Technologies (IV)

Session Chair: Qi Wu, The Hong Kong Polytechnic University, China

Time	09:00-10:30 September 11, 2026	Venue	LM101A / 1F
Invited Talks			
09:00-09:30	Title: Integrated QKD and High-Throughput Classical Communications Over Field-Deployed MCFs Speaker: Qi Wu, The Hong Kong Polytechnic University		
09:30-10:00	Title: CPO/NPO Like Intra-Vehicle Optical Interconnect Speaker: Gordon Ning Liu, Soochow University		
10:00-10:30	Title: Chip-scale Spectroscopic Metrology: From Programmable Photonics to Biomedical Sensing Speaker: Chunhui Yao, GlitterinTech Limited		



T04. Automotive Optoelectronics (II)

Session Chair: Gordon Ning Liu, Soochow University, China

Time	09:00-10:30 September 11, 2026	Venue	LM105 / 1F
Invited Talks			
09:00-09:30	Title: In-Vehicle Optical Communication: Use-Case Value, Integration Architecture and Key Challenges Speaker: Enyu Zhou, Huawei Technologies Co. Ltd		
09:30-10:00	Title: Integrated Forward Optical Fiber Sensing and Communication Systems Speaker: Yaxi Yan, The HK Polytechnic University		
10:00-10:30	Title: High-speed Micro-LEDs for Optical Interconnect Speaker: Zixian Wei, The Hong Kong Polytechnic University		

S01. Laser Technology (III)

Session Chair: Yani Zuo, National Institute of Metrology, China

Time	09:00-10:15 September 11, 2026	Venue	LM101B / 1F
Oral Information			
09:00-09:15	Paper ID: 3501 Title: Displacement Talbot Lithography for High-Volume Manufacturing of DFB Laser, EML, VCSEL, and PCSEL Presenter: Zhixin (Jason) Wang, Eulitha AG		
09:15-09:30	Paper ID: 7814 Title: Chaotic Bandwidth Stabilization in a State-switching Fourier Domain Mode-Locked Laser Presenter: Wenhao Zhu, The Hong Kong Polytechnic University		
09:30-09:45	Paper ID: 7980 Title: Experimental and numerical investigation of noise-like pulses in a 1.9 μm mode-locked Tm-doped fiber laser Presenter: Wanquan Lv, Shenzhen University		
09:45-10:00	Paper ID: 2679 Title: A CNN-Based LEL-Constrained Hierarchical Routing Framework for FTIR Gas Concentration Retrieval Presenter: Weiling Chen, Chongqing University		
10:00-10:15	Paper ID: 2344 Title: Distance-Adaptive Optical Frequency Comb Ranging Enabled by Active Pulse Alignment Presenter: Xueting Zhang, Chongqing University		



T03. Optoelectronics EDA Software

Session Chair: Lei Wang, Pengcheng Lab, China

Time	09:00-11:00 September 11, 2026	Venue	LM106 / 1F
Invited Talks			
09:00-09:30	Title: Scaling Silicon Photonics With Software Automation: Shift-Left Constraints And Data Closed-Loop Speaker: Ruping Cao, Semitronix		
09:30-10:00	Title: Trends and Industrial Practices in Intelligent Photonics-Electronics Co-Design Methodology Speaker: Xiaoming Liu, Emphyrean Technology		
10:00-10:30	Title: From Circuit to System: Co-Simulation for High-Performance Electronic-Photonic Designs Speaker: Zheng Zhou, Ansys part of Synopsys		
10:30-11:00	Title: LightningFNO: Ultra-Fast Modeling and Inverse Design for Photonic Matrix-Vector Multiplication Computing Units Speaker: Qisheng Yang, Hunan University		

S10. Computational Imaging (VI)

Session Chair: Liangcai Cao, Tsinghua University, China

Time	10:45-12:05 September 11, 2026	Venue	LM103A / 1F
Invited Talks			
10:45-11:15	Title: Exploiting Spatiotemporal Priors for Motion-Resolved Computational Microscopy Speaker: Yunhui Gao, Tsinghua University		
11:15-11:45	Title: Spatiotemporal Super-Resolution Structured-Light 3D Imaging With Physics-Guided AI Speaker: Shijie Feng, Nanjing University of Science and Technology		
Oral Information			
11:45-12:05	Paper ID: 1156 Title: Flat-Risk Guided Column-Field Correction and Clean-Detail Enhancement for Lightweight Infrared Image Restoration Presenter: Jiongnan Lou, Nanjing University of Science and Technology		



S03. Metamaterials and Photonic Crystals (IV)

Session Chair: Longqing Cong, Southern University of Science and Technology, China

Time	10:45-12:00 September 11, 2026	Venue	LM103C / 1F
Oral Information			
10:45-11:00	Paper ID: 9126 Title: Topological Phase Mapping of Light with Ferrofluids Presenter: Alberto Tufaile, Universidade de Sao Paulo		
11:00-11:15	Paper ID: 1798 Title: Differentiable Inverse Design of Multidimensional Multiplexed Metasurfaces via Frozen-Weight Neural Surrogates Presenter: Rui Yu, Tianjin University		
11:15-11:30	Paper ID: 6256 Title: Terahertz Dynamically Switchable Wavefront-Manipulation Integrated Metasurface Based on Dual-Frequency Liquid Crystal Presenter: Zhihao Wang, Tianjin University		
11:30-11:45	Paper ID: 2846 Title: Impact of Transfer-Induced Non-uniform Strain on the Performance of Graphene/Si Photodetectors Presenter: Liting Huang, China Agricultural University		
11:45-12:00	Paper ID: 7002 Title: Metamaterial Circular Polarizer Using Double-Layer Split-Ring Resonators for Ku-band Applications Presenter: Farman Ali Mangi, Shah Abdul Latif University, Department of Physics and Electronics, Khairpur		

S09. Silicon Photonics (V)

Session Chair: Yanjing Zhao, National Optoelectronics Innovation Center

Time	10:45-12:15 September 11, 2026	Venue	LM104A / 1F
Invited Talks			
10:45-11:15	Title: Integrated Photonic Waveguide Parametric Amplification and Its Applications in Communications Speaker: Ping Zhao, Sichuan University		
11:15-11:45	Title: Silicon Photonic Integrated LiDAR Chips for 4D Imaging Speaker: Baisong Chen, Jilin University		
11:45-12:15	Title: Quantum-Dot Light Sources in the AI Computing Era: Opportunities and Challenges Speaker: Zihao Wang, Institute of Physics, Chinese Academy of Sciences		



S05. Fiber-Based Technologies and Applications (II)

Session Chair: Yu Wang, Taiyuan University of Technology, China

Time	10:45-12:15 September 11, 2026	Venue	LM104B / 1F
Invited Talks			
10:45-11:15	Title: Optoelectronic Fibers and Their Applications in Smart Textiles Speaker: Zhixun Wang, Hong Kong Polytechnic University		
11:15-11:45	Title: Highly Integrated All-Fiber Active Ultrasonic Transducer and High-Resolution Imaging Applications Speaker: Hao Li, Huazhong University of Science and Technology		
11:45-12:15	Title: High-Sensitivity Bio-inspired Optical Fiber Sensing Technology and Applications Speaker: Liangye Li, Xidian University		

S06. Optoelectronic Devices and Applications (V)

Session Chair: Qiancheng Zhao, Southern University of Science and Technology, China

Time	10:45-12:15 September 11, 2026	Venue	LM104C / 1F
Invited Talks			
10:45-11:15	Title: Highly Responsive Broadband Si-Based MoS2 Photodetector on High-K Dielectric. Speaker: Qasim Muhammad, Beijing Institute of Technology		
11:15-11:45	Title: Deep-Ultraviolet LEDs: Device Engineering and Integration for Optical Communication Speaker: Muhammad Hunain Memon, University of Science and Technology of China		
Oral Information			
11:45-12:00	Paper ID: 2015 Title: Defect engineering in silicon pin photodetectors for room temperature SWIR detection Presenter: Yi Li, Helmholtz-Zentrum Dresden-Rossendorf		
12:00-12:15	Paper ID: 1283 Title: Microfluidic Controllable Synthesis of Blue Quantum Dots for Optoelectronic Displays Presenter: Jing Li, Tianjin University		



T05. Optical Communication and Sensing Technologies (IV)

Session Chair: Cuiwei He, Japan Advanced Institute of Science and Technology, Japan

Time	10:45-11:45 September 11, 2026	Venue	LM101A / 1F
Oral Information			
10:45-11:00	Paper ID: 6830 Title: Thermo-Elastic Optical Indicator Microscopy for Visualization of Microwave-Induced Electromagnetic Interactions in Metal Nanoparticle Suspensions Presenter: Nelli Babajanyan, Yerevan State University		
11:00-11:15	Paper ID: 5683 Title: A Three-Channel Wavelength-Division Multiplexing (WDM) Optical Wireless Communication System Using Fluorescent Antennas Presenter: Cuiwei He, Japan Advanced Institute of Science and Technology (JAIST)		
11:15-11:30	Paper ID: 5897 Title: Polarization Optical Microscopy Platform for GHz-mm-Wave EM Field Visualization Presenter: Arsen Babajanyan, Yerevan State University		
11:30-11:45	Paper ID: 3404 Title: A Hybrid WDM-DDM Interrogation System for Multiplexed FBG Sensors using a tunable VCSEL for Structural Health Monitoring Presenter: Zhixuan Cheng, Kanazawa University		

T04. Automotive Optoelectronics (III)

Session Chair: Xian Zhou, University of Science and Technology Beijing, China

Time	10:45-12:00 September 11, 2026	Venue	LM105 / 1F
Invited Talks			
10:45-11:15	Title: Optical communication with integrating transmission and computational Imaging Speaker: Zhenming Yu, Beijing University of Posts and Telecommunications		
11:15-11:45	Title: Study on High-Power VCSELs with Temperature Stability for Automotive Applications Speaker: Hui Li, Shenzhen Technology University		
Oral Information			
11:45-12:00	Paper ID: 8195 Title: Software-Defined Automotive TSN Implementation on a General-Purpose Embedded Platform Using RTLinux Presenter: Jitao Huang, Soochow University		



S06. Optoelectronic Devices and Applications (VI)

Session Chair: Anhui Liang, Yango University, China

Time	10:45-12:15 September 11, 2026	Venue	LM101B / 1F
Oral Information			
10:45-11:00	Paper ID: 8026 Title: A Cascaded Ultra-Narrow-Band Fiber Bragg Grating Based Light Source for Simultaneous CO and CO ₂ Gas Sensing Using Wavelength Modulation Spectroscopy Presenter: Xiao Xiao, Hubei University of Science and Technology		
11:00-11:15	Paper ID: 1267 Title: Flexible delivery of 100 μ J femtosecond laser pulses through a 10-m dual-thickness anti-resonant hollow-core fiber Presenter: Yuzhou Liao, Shenzhen University		
11:15-11:30	Paper ID: 5315 Title: Constrained Thermomechanical Response of Polycarbonate Fibers for Passive Thermal Triggering Presenter: Hetao Huang, Southern University of Science and Technology		
11:30-11:45	Paper ID: 2582 Title: Light-responsive Materials based on Near-infrared Emissive CuInS ₂ ZnS Core-Shell Quantum Dots and UV visible Light Activated Diarylethene Photoswitches Presenter: Kezhou Chen, Tianjin University		
11:45-12:00	Paper ID: 2727 Title: A Study on the 1D AlexNet-Based SERS Classifier for Pesticide Identification Presenter: Song Li, Yunnan University		
12:00-12:15	Paper ID: 3444 Title: Label-Free Tracking of Intracellular Structural Dynamics During Migratory Protrusion Formation Using Dual-Polarizer Microscopy Presenter: David Campos Quiñonez, Universidad de Guadalajara		

S08. Data Center Optical Interconnects and Networks

Session Chair: Qian Li, Peking University, China

Time	11:15-12:15 September 11, 2026	Venue	LM106 / 1F
Invited Talks			
11:15-11:45	Title: Direct detection-based complex-valued signal recovery and channel monitoring Speaker: Shaohua Hu, University of Electronic Science and Technology of China		
11:45-12:15	Title: Parallel Processing for High-Performance Software Switches Speaker: Rongping Lin, University of Electronic Science and Technology of China		



ONLINE SESSION / Sep. 11, 2026

Time	11:30–12:15, September 11, 2026	Venue	LM103B / 1F
Information			
11:30–11:45	Paper ID: 8695 Title: Colliding-Pulse Mode-Locked Laser as a Coherent Optical Frequency Comb Generator for Terahertz Atmospheric Spectroscopy Presenter: Ruirui Hou, University College London		
11:45–12:00	Paper ID: 2705 Title: Robust FTIR-Based Thickness Estimation of SiC Epitaxial Layers Using Dual-Angle Consistency and Fabry-Perot Correction Presenter: Yueyang Zhang, Hubei University of Technology		
12:00–12:15	Paper ID: 5211 Title: Spatiotemporal Graph Meta-Learning with a Network Digital Twin for ROADM Soft-Failure Localization Presenter: Rohit Rana Magar, Bragança Polytechnic University		



POSTER SESSIONS / Sep. 10, 2026

Time	15:30-17:50, September 10, 2026	Venue	Poster Area
Board No.	Paper Information		
01	Paper ID: 3107 Title: Investigation of the Spectral Resolution Limit of Multi-Wavelength Coherent Modulation Imaging Presenter: Ninghan Xia, Southern University of Science and Technology		
02	Paper ID: 9732 Title: Highly Sensitive Fiber-Optic Fabry-Pérot Acoustic Sensor Based on a Circular Kirigami-Patterned Diaphragm Presenter: Songqi Zhang, Northeastern University		
03	Paper ID: 0489 Title: Real-Time Triaxial Magnetic-Field Measurement Using an Elliptically Polarized Atomic Magnetometer Presenter: Xiaoshu Ding, Beihang University		
04	Paper ID: 7516 Title: 1555 nm Ultra-Narrow Linewidth Semiconductor Laser via MgF₂ Microresonator Self-Injection Locking Presenter: Yuchen Jia, Nanjing University		
05	Paper ID: 8578 Title: Reference-Coupled Drift Suppression for Atomic Magnetometer Readout Under Environmental Disturbance Presenter: Xinyi Li, Beihang University		
06	Paper ID: 3288 Title: A Visible Light Color-Code Communication System Using a Display with Error Correction and Sequential Generation of Color Thresholds Presenter: Yuqing Zheng, Kitami Institute of Technology		
07	Paper ID: 2755 Title: Classification of Insulating Oil-Related Materials Based on Terahertz Spectroscopy and Multidimensional Feature Fusion Presenter: Jing Shen, State Grid Zhejiang Electric Power Company Limited		
08	Paper ID: 5554 Title: Submillimeter Spatial Resolution and Signal Enhancement in SERF Atomic Magnetometers Presenter: Yuesong Wu, Beihang University		
09	Paper ID: 0056 Title: Dual-Point Temperature Sensing Using a Fiber Ring Laser Cavity Incorporating Cascaded π-Phase-Shifted Fiber Bragg Gratings Presenter: Qi Chen, Xiamen Institute of Technology		



Board No.	Paper Information
10	Paper ID: 3162 Title: Simultaneous Temperature and Salinity Sensing Based on Time-Stretch Effect and a TFBG Cascaded with a Sagnac Interferometer Presenter: Qi Chen, Xiamen Institute of Technology
11	Paper ID: 6723 Title: A Low-Cost Active AprilTag System for Daytime and Dark Environments Presenter: Ye Liu, Xi'an Jiaotong-Liverpool University
12	Paper ID: 8668 Title: Robustness Enhancement of Micro-LED Optical Computing System Against Pixel Alignment Errors Presenter: Haobo Zhu, Shanghai University
13	Paper ID: 3350 Title: Phase-Aware Adaptive Optical Circuit Switching Topology Reconfiguration for Distributed Training Presenter: Shan Yin, Beijing University of Posts and Telecommunications
14	Paper ID: 4914 Title: Precise Localization and Dual-parameter Sensing Based on an Overlapping FBG array with OFDR Presenter: Peiyao Wang, Beijing Jiaotong University
15	Paper ID: 1308 Title: Cycle-by-Cycle Radiation Optimization and Beam Steering of Terahertz Leaky-Wave Antenna Based on Unidirectional Surface Magneto Plasmon Presenter: Qingyu Li, Zhejiang University of Technology
16	Paper ID: 5358 Title: Probability-Shaped DFT-Spread APSK Modulation with Polarization-Diversity Fusion for Turbulence-Resilient Underwater Visible Light Communication Presenter: Haozheng He, King Abdullah University of Science and Technology
17	Paper ID: 9815 Title: Photonic Reservoir Computing via a Hexagonal Light Rod for Signal Equalization in Optical Wireless Communications Presenter: Cuiwei He, Japan Advanced Institute of Science and Technology (JAIST)
18	Paper ID: 3750 Title: Optimized Linearization of Laser Frequency Sweep Chirps for FMCW LiDAR Presenter: Xin Hu, Shenzhen Institute of Artificial Intelligence and Robotics for Society
19	Paper ID: 1231 Title: Multiphysics Design and Preliminary Validation of a Dual FBG Hydrogen Sensing System Presenter: Qi Liu, Beihang University



Board No.	Paper Information
20	Paper ID: 2219 Title: Spectral Characteristics of Apodized Silicon-Based Rib Bragg Gratings for Low-Crosstalk DWDM Systems Presenter: CHIA-CHUAN,YU, Central University
21	Paper ID: 6482 Title: A Comparative Study of Peak Tracking Algorithms for Michelson Salinity Sensors under Dynamic Temperature Variations Presenter: Yikai Chen, Guangzhou University
22	Paper ID: 5638 Title: Transient Dynamic Modeling and Bias Pump Optimization of Quasi-Continuous Wave Thulium- Doped Fiber Lasers Presenter: Ningyin Liang, Southern University of Science and Technology
23	Paper ID: 2557 Title: Monolithic GaN Refractometers Enabled by Droplet-Guided Light Coupling Presenter: Yumeng Luo, The Hong Kong University of Science and Technology
24	Paper ID: 9495 Title: Wavelength-Engineered Monolithic GaN Optopairs for On-Chip Thermometry Presenter: Hongying Yang, Southern University of Science and Technology
25	Paper ID: 9910 Title: Energy-Time Entangled Photon Pairs Generation in Aluminum Nitride Microing Resonator Presenter: Huihui Cui, University of Electronic Science and Technology of China
26	Paper ID: 8587 Title: Hong-Ou-Mandel Interference Between Two Integrated Optical-Frequency-Comb Chips Presenter: Zhaoyu Chen, University of Electronic Science and Technology of China
27	Paper ID: 7998 Title: Plasmonic Microsphere Lens Array SERS Chip-Driven Portable System for Point-of-Care Dynamic Detection of Multiple Biomarkers Presenter: Zhenyong Dong, University of Jinan
28	Paper ID: 6440 Title: Chip-Scale Polarimetric Sensing of Magnetic-Fluid Anisotropy with a Monolithic GaN LED–Dual-Photodetector Chip Presenter: Muxing Zheng, Southern University of Science and Technology
29	Paper ID: 5979 Title: Optimized Broadband Optical Phased Arrays with Blue-Green Wavelength Division Multiplexing Presenter: Caiming Sun, The Chinese University of Hong Kong, Shenzhen
30	Paper ID: 8393 Title: Cross-Modal Spectral Pathology of Liver Cancer with a Metasurface Sensing-Computing Chip Presenter: Daniel He Tao, Tsinghua University



Board No.	Paper Information
31	Paper ID: 9509 Title: Enhancing Bonding Strength in LNOI-to-Silicon Dioxide Die-to-Wafer Integration by Thickness Control and Differentiated Plasma Treatment Presenter: Hanbing Ren, Shanghai University, Shanghai Industrial μTechnology Research Institute(SITRI)
32	Paper ID: 3560 Title: Numerical Comparison of Hot-Side Heat-Rejection Paths for a Compact Triple-Point-of-Water Calibrator Presenter: Ping Du, South China Normal University
33	Paper ID: 0362 Title: Transient Thermal Modeling of a Silicon-Based Water Phase-Change Micro-cell for On-Chip Temperature References Presenter: Senwen Guan, Guangzhou University
34	Paper ID: 0614 Title: Model-Guided Distributed Thermo-Optic Lens and Mode-Matching Analysis of Double-End-Pumped Pr:YLF Cavities Presenter: Xuanyu Hu, Huazhong University of Science and Technology
35	Paper ID: 1024 Title: Characterization of a Miniaturized HF Absorption Cell as a 1260 nm Wavelength Reference Presenter: Qian Cheng, South China Normal University
36	Paper ID: 9156 Title: Design and Preliminary Calibration of an Optical Salinity Probe for Shelf-Water Monitoring Presenter: Lianghao Zheng, Southern University of Science and Technology
37	Paper ID: 5565 Title: BiSPEND_Fast and Lightweight Bidirectional SPEND for Hyperspectral SRS Denoising Presenter: Tianyu Lai, Southern University of Science and Technology
38	Paper ID: 1304 Title: Structure-Preserving Cross-Domain OCT Denoising via Dilated Asymmetric Spatial-Aware Networks Presenter: Yanning He, Southern University of Science and Technology
39	Paper ID: 4141 Title: An Offset-Spliced SMF-NCF Mach-Zehnder Interferometer for Simultaneous Measurement of Temperature and salinity Presenter: Yan Liang, Southern University of Science and Technology
40	Paper ID: 9068 Title: Seismic Functional Status Monitoring and Evaluation Method and System for All-Fiber Converter Stations Presenter: Chenkai Zhang, Dali Bureau of Southern Power Grid Ultra High Voltage Transmission Company



Board No.	Paper Information
41	Paper ID: 5744 Title: Research on Equipment Status Monitoring Technology of Converter Station Based on Distributed Fiber Optic Vibration and Temperature Sensing Presenter: Hongsheng Xie, Dali Bureau of Southern Power Grid Ultra High Voltage Transmission Company
42	Paper ID: 0888 Title: PECVD SiO₂/Si₃N₄ Process for Self-Aligned Silicon Avalanche Emitter and Silicon Nitride Waveguide Integration Presenter: Xiao Li, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences
43	Paper ID: 9716 Title: Turbulence-Induced Laser Spot Degradation Modeling for Long-Distance Free-Space Optical Communication Presenter: Zengxin Liu, Xi'an University of Architecture and Technology
44	Paper ID: 1839 Title: Simulation and Analysis of Velocity Estimation Errors for Complex Moving Targets Using FMCW Lidar Presenter: Yundi Cao, Harbin Institute of Technology, Shenzhen
45	Paper ID: 1344 Title: High-Precision Beam Pointing Control of Electrostatic MEMS Mirror for Miniaturized Laser Communication Terminals Presenter: Xuan Wang, Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences





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