



EST 2026

Earth & Space: from Infrared to Terahertz International Conference 2026

Sept. 18 - 20 / Shanghai, China

Hosts

Fudan University

Shanghai Institute of Technical Physics, Chinese Academy of Sciences

Executive Organizers

Institute of Optoelectronics, Fudan University

State Key Laboratory of Infrared Physics, Shanghai Institute of Technical Physics, CAS



Conference Schedule

Plan	Sep.18	Sep.19	Sep.20	Location
Registration	09:00-19:00	08:00-18:00	08:00-17:00	Lobby, 1F 一楼 大堂
Opening Ceremony		08:30-09:00		Ya Mei Ballroom, 3F 三楼 亚美宴会厅
Plenary Session		09:00-12:00		Ya Mei Ballroom, 3F 三楼 亚美宴会厅
Track 1: Infrared physics and devices		13:30-17:00	08:30-16:55	Ya Mei Ballroom 2, 3F 三楼 亚美 2
Track 2: Terahertz and Millimeter Waves		13:30-17:00	08:30-14:45	Ya Mei Ballroom 1, 3F 三楼 亚美 1
Track 3: Remote Sensing and Space Exploration		13:30-16:45	08:30-15:05	Noah Room 6, 3F 三楼 诺亚会议室 6
Track 4: Digital Earth and Intelligent Cognition		13:30-16:45	08:30-14:40	Noah Room 3, 3F 三楼 诺亚会议室 3
Track 5: Infrared and Interdisciplinary Fields		13:30-17:15	08:30-17:05	Ya Mei Ballroom 3, 3F 三楼 亚美 3
青年科学家论坛 (In Chinese)		13:30-17:00		Noah Room 1+2, 2F 2楼 诺亚会议室 1+2
Poster Session		17:00-18:30		Pre-function Area, 3F 三楼 会场序厅
Workshop 红外光电技术产业论坛	13:30-18:00			Noah Room 5, 3F 三楼 诺亚会议室 5
《红外与毫米波学报》2026 年度 编委会工作会议暨改版发布会	13:30-15:30			Noah Room 3, 3F 三楼 诺亚会议室 3
Banquet & Awards		18:30-20:30		Ya Mei Ballroom, 3F 三楼 亚美宴会厅

Opening Ceremony & Plenary Talk

Sep.19 Saturday, Ya Mei Ballroom, 3F

Presider:

08:30-09:00

Opening Ceremony

Presider: Jianlu Wang, Fudan University

09:00-09:40

Plenary Talk

From Visible to Terahertz Detection: Device Innovation Driven by Laser Precision Manufacturing

Hongbo Sun, Tsinghua University

09:40-10:20

Plenary Talk

Cascade structures for single and multi-pixels IR detectors

Piotr Martyniuk, Military University of Technology

10:20-10:40

Coffee Break

Presider: Antoni Rogalski, Military University of Technology

10:40-11:20

Plenary Talk

Miniaturised Computational Light Detection

Tawfique Hasan, University of Cambridge

11:20-12:00

Plenary Talk

Metasurfaces for Controlling Light: From Interfacial Phases to Flat Optics

Lei Zhou, Fudan University

12:00-13:30

Lunch

Track 1: Infrared physics and devices

Sep.19 Saturday, Ya Mei Ballroom 2, 3F (三楼 亚美 2)

Presider: Qingyuan Zhao, Nanjing University

13:30-13:55	Keynote Talk Recent Progress in Light-Matter Interactions in 2D Materials from Visible to THz Jianbin Xu, The Chinese University of Hong Kong
13:55-14:10	Invited Talk TBD Xuetao Gan, Northwestern Polytechnical University
14:10-14:25	Invited Talk TBD Surendra B. Anantharaman, Indian Institute of Technology Madras
14:25-14:40	Invited Talk Research on High Performance and Multifunctional Infrared Detection Technology Using Organic Materials Jun Wang, University of Electronic Science and Technology of China
14:40-14:55	Invited Talk TBD Yanli Shi, Yunnan University
14:55-15:10	Coffee Break
Presider: Jun Wang, University of Electronic Science and Technology of China	
15:10-15:35	Keynote Talk TBD Chunlai Xue, Institute of Semiconductors, Chinese Academy of Sciences
15:35-15:50	Invited Talk AI-native robotic vision enabled by in-sensor computing Changsoon Choi, Sungkyunkwan University
15:50-16:05	Invited Talk TBD Qingyuan Zhao, Nanjing University
16:05-16:20	Invited Talk Low-Dimensional Antimonide and Optoelectronic Devices Zaixing Yang, Shandong University

16:20-16:35	Invited Talk Giant Photovoltaic Effect and Ultrafast Photoresponse in Polarity-Engineered Mengjian Zhu, National University of Defense Technology
16:35-16:50	Invited Talk Direct tensor processing with coherent light Yufeng Zhang, Aalto University
16:50-17:00	Oral Talk Dual-band Colloidal Quantum Dot Focal Plane Array Yunxiang Di, Fudan University
17:00-18:30	Poster Session
18:30-20:30	Banquet

Track 1: Infrared physics and devices

Sep.20 Sunday, Ya Mei Ballroom 2, 3F (三楼 亚美 2)

Presider: Shanshan Liu, Shanghai Institute of Technical Physics, Chinese Academy of Sciences

08:30-08:55	Keynote Talk TBD Kai Zhang, Suzhou Institute of Nano-Tech and Nano-Bionics,CAS
08:55-09:10	Invited Talk 2D Polarization-Sensitive Photodetectors Zhongming Wei, Institute of Semiconductors, Chinese Academy of Sciences
09:10-09:25	Invited Talk Mid-infrared single-photon upconversion spectroscopy based on temporal-spectral E Wu, East China Normal University
09:25-09:40	Invited Talk III-V Semiconductor Based Nanostructures for High-Performance Infrared Photodetection and Imaging Ziyuan Li, Beijing Institute of Technology
09:40-09:55	Invited Talk Broadband absorption limit of terahertz and infrared waves by nanofilms and its optoelectronic detection applications Tao Zhao, University of Electronic Science and Technology of China
09:55-10:10	Invited Talk TBD Kun Ba, Shanghai University
10:10 - 10:20	Oral Talk Mid-Infrared Fluoride Glass Optical Fibers and Devices Changjun Xu, Northeast Normal University
10:20-10:35	Coffee Break
Presider: Zhongming Wei, Institute of Semiconductors, Chinese Academy of Sciences	
10:35-11:00	Keynote Talk TBD Jiang Tang, Huazhong University of Science and Technology
11:00-11:15	Invited Talk TBD Zhijun Ning, ShanghaiTech University

11:15-11:30	Invited Talk 昆明物理研究所铋镉汞双色红外探测器研究进展 Gang Qin, Kunming Institute of Physics
11:30-11:45	Invited Talk TBD Shanshan Liu, Shanghai Institute of Technical Physics, Chinese Academy of Sciences
11:45-12:00	Invited Talk III-V-V nanowire lasers Xutao Zhang, Northwestern Polytechnical University
12:00-12:10	Oral Talk Band-Engineered Novel Blackbody-Sensitive vdW Infrared Detectors Runze Sun, Hangzhou Institute for Advanced Study, UCAS
12:10-13:30	Lunch

Track 1: Infrared physics and devices

Sep.20 Sunday, Ya Mei Ballroom 2, 3F (三楼 亚美 2)

Presider: Junpeng Lv, Southeast University

13:30-13:55	Keynote Talk TBD Zhenhua Ni, Southeast University
13:55-14:10	Invited Talk TBD Zhigao Hu, East China Normal University
14:10-14:25	Invited Talk Reversible Switching for Mid-Wave and Long-Wave Infrared Dual-Band I Menglu Chen, Beijing Institute of Technology
14:25-14:40	Invited Talk Manipulation of Carrier Dynamics in Narrow-Bandgap Semiconductors and Their Optoelectronic Devices Qisheng Wang, Nanchang University
14:40-14:55	Invited Talk TBD Hai Huang, Fudan University
14:55-15:05	Oral Talk Solid-state Transparent Infrared Electrochromic Device Based on Aluminum-doped Zinc Oxide Nanocrystals Xu Zheng, National University of Defense Technology
15:05-15:20	Coffee Break
Presider: Menglu Chen, Beijing Institute of Technology	
15:20-15:45	Keynote Talk TBD Wenfu Zhang, Xi'an Institute of Optics and Precision Mechanics
15:45-16:00	Invited Talk TBD Junpeng Lv, Southeast University
16:00-16:15	Invited Talk T2SL technology developments in MWIR band operating at high operating temperature Donghai Wu, Institute of Semiconductors, Chinese Academy of Sciences

16:15-16:30	Invited Talk High-purity germanium semiconductor photodetectors Huiyong Deng, East China Normal University
16:30-16:45	Invited Talk Infrared Visualization: From Monochromatic to Full-Color Upconversion Ge Mou, Beijing Institute of Technology
16:45-16:55	Oral Talk Encapsulation and beyond encapsulation of 2D semiconductors Guichen Teng, Shanghai Institute of Technical Physics, Chinese Academy of Sciences

Track 2: Terahertz and Millimeter Waves

Sep.19 Saturday, Ya Mei Ballroom 1, 3F (三楼 亚美 1)

Presider:

13:30-13:55	Keynote Talk Terahertz Wavefront Engineering with Active Metasurfaces Yan Zhang, Capital Normal University
13:55-14:20	Keynote Talk TBD Dong Sun, Peking University
14:20-14:35	Invited Talk Quantum Cascade Lasers: Research Progress and Application Prospects Junqi Liu, Ocean University of China
14:35-14:50	Invited Talk Combined Resonant Tunneling and Rate Equation Model for Room-Temperature THz Quantum Cascade Lasers Lin Wang, Shanghai Institute of Technical Physics
14:50-15:05	Invited Talk Surface-Emitting THz Quantum Cascade Lasers via Valley-Edge Topological Cavities Qi Qin, Shenzhen University
15:05-15:15	Invited Talk Dynamic terahertz beam manipulation for communication and imaging applications Jierong Cheng, Nankai University
15:15-15:25	Oral Talk A scalable platform for high-cooperativity and multi-mode ultrastrong plasmon-phonon coupling Li Yu, Shanghai Institute of Technical Physics Chinese Academy of Sciences
15:25-15:40	Coffee Break
Presider:	
15:40-16:05	Keynote Talk Terahertz Intelligent Diffractive Devices and Their Applications in Next-Generation Communications Yiming Zhu, University of Shanghai for Science and Technology

16:05-16:20	Invited Talk Weak Temperature Dependence of Electron-Ion Coupling in Warm Dense Gold from Single-Shot Terahertz Time-Domain Spectroscopy Dongwen Zhang, National University of Defense Technology
16:20-16:35	Invited Talk Terahertz bio-detection of single protein molecules Huabin Wang, Chongqing Institute of Intelligence
16:35-16:50	Invited Talk Terahertz surface-emitting photonic devices for vortex beam generations and wireless communications Song Han, Zhejiang University
16:50-17:05	Invited Talk Reconfigurable Terahertz Diffractive Spiral Zone Plates from Patterned Carbon Nanotube Films on Stretchable Elastomers for OAM and Focal Control Nikolay Petrov, Harbin Institute of Technology/ITMO University
17:00-18:30	Poster Session
18:30-20:30	Banquet

Track 2: Terahertz and Millimeter Waves

Sep.20 Sunday, Ya Mei Ballroom 1, 3F (三楼 亚美 1)

Presider:

08:30-08:55	Keynote Talk High-Speed Terahertz Direct Modulation and Indoor Omnidirectional High-Speed Information Hub Technologies Yaxin Zhang, University of Electronic Science and Technology of China
08:55-09:10	Invited Talk Terahertz photoacoustics and applications Zhen Tian, Tianjin University
09:10-09:25	Invited Talk Complex structured light manipulations enabled by metasurfaces and metasystems Shulin Sun, Fudan University
09:25-09:40	Invited Talk Combined Resonant Tunneling and Rate Equation Model for Room Temperature THz Quantum Cascade Lasers Feihu Wang, Southern University of Science and Technology
09:40-09:55	Invited Talk Research on High-Performance and High-Efficiency Photonic Terahertz Sensing and Communication Integrated System Min Zhu, Southeast University
09:55-10:10	Invited Talk Broadband Terahertz Comb Spectroscopy and Applications Min Li, University of Shanghai for Science and Technology
10:10- 10:20	Oral Talk Transient Chirp Dynamics in Terahertz Quantum Cascade Lasers Xianglong Bi, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences
10:20-10:35	Coffee Break
Presider:	
10:35-10:50	Invited Talk Terahertz heterogeneous integrated photonic devices Xuecou Tu, Nanjing University

10:50-11:05	Invited Talk TBD Shaowei Wang, East China Normal University
11:05-11:20	Invited Talk Recent development of room temperature terahertz sources based on difference-frequency generation from mid-IR QCLs Quanyong Lu, Beijing Academy of Quantum Information Sciences
11:20-11:35	Invited Talk Design and Application of Carbon Nanotube Terahertz Metasurface Sensors for Trace Substance Detection Yue Wang, Xi'an University of Technology
11:35-11:50	Invited Talk Terahertz semiconductor laser chaos Binbin Liu, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences
11:50-13:30	Lunch

Track 2: Terahertz and Millimeter Waves

Sep.20 Sunday, Ya Mei Ballroom 1, 3F (三楼 亚美 1)

Presider:

13:30-13:45	Invited Talk TBD Hai Zhang, Harbin Institute of Technology
13:45-14:00	Invited Talk Optoelectronic Devices for Millimeter-Wave & Terahertz Generation and Detection Feiliang Chen, University of Electronic Science and Technology of China
14:00-14:15	Invited Talk On-Chip Light Field Manipulation with Metasurfaces: From Surface Waves to Vector Optical Fields Zhuo Wang, Fudan University
14:15-14:25	Oral Talk Multifunctional Vectorial Optical Field Generation with on-chip Metasurface Shuai Du, Fudan University
14:25-14:35	Oral Talk Millimeter-Wave/Sub-Terahertz Metadevices and Circuit Design: Progress and Perspectives LePeng Zhang, Southeast University
14:35-14:45	Oral Talk Quantum-Geometry-Enabled Terahertz Rectification in the Weyl Semimetal TaP Wenqi Mo, Hangzhou Institute for Advanced Study, UCAS

Track 3: Remote Sensing and Space Exploration

Sep.19 Saturday, Noah Room 6, 3F (三楼 诺亚会议室 6)

Presider:

13:30-13:55	Keynote Talk TBD Xiaopeng Hao, Tsinghua University
13:55-14:10	Invited Talk Quartz-enhanced laser spectroscopy gas sensing technology Yufei Ma, Harbin Institute of Technology
14:10-14:25	Invited Talk TBD Chunlai Li, Shanghai Institute of Technical Physics, Chinese Academy of Sciences
14:25-14:40	Invited Talk On-Orbit Radiometric Calibration and Radiometric Reference Transfer of Satellite Infrared Instruments Using the Moon Yunzhao Wu, Purple Mountain Observatory, Chinese Academy of Sciences
14:40-14:55	Invited Talk High-Performance Optical Fiber Distributed Acoustic Sensor (DAS) Bin Pan, Nankai University
14:55-15:05	Oral Talk Scalable Multi-Pixel Tunable-Tc NbN MKIDs at 4 K: Enabling Cost-Effective Terahertz Detection for Remote Sensing, Space Exploration and Quantum Photonics Yao Ting, Gusu Laboratory of Materials/Suzhou Rysview Terahertz Technology Co., Ltd
15:05-15:20	Coffee Break
Presider:	
15:20-15:35	Invited Talk TBD Fengming Hu, Fudan University
15:35-15:50	Invited Talk TBD Ruiheng Zhang, Beijing Institute of Technology
15:50-16:05	Invited Talk High-Performance Optical Fiber Distributed Acoustic Sensor (DAS) Jun He, Shenzhen University

16:05-16:20	Invited Talk TBD Ping Zhu, Shenzhen University
16:20-16:35	Invited Talk Tianwen-2 mission: From laboratory to remote sensing observations Pengfei Zhang, Institute of Geochemistry, Chinese Academy of Sciences
16:35-16:45	Oral Talk Spectral imaging for the outer solar system: Missions, instruments and current challenges Yizhi Du, Shanghai Institute of Technical Physics, Chinese Academy of Sciences
17:00-18:30	Poster Session
18:30-20:30	Banquet

Track 3: Remote Sensing and Space Exploration

Sep.20 Sunday, Noah Room 6, 3F (三楼 诺亚会议室 6)

Presider:

08:30-08:55	Keynote Talk TBD Ningfang Song, Beihang University
08:55-09:10	Invited Talk A 500-600 GHz Spectrometer for Deep Space Exploration Haotian Zhu, National Space Science Center, the Chinese Academy of Sciences
09:10-09:25	Invited Talk Imaging Techniques and Future Application Developments of the CHASE (Xihe) Solar Imaging Spectrometer Qiang Liu, Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences
09:25-09:40	Invited Talk TBD Hanlin Qin, Xidian University
09:40-09:50	Oral Talk From Infrared to Radio waves in the Environmental Domain Simona Niculescu, University of Brest/Institut Universitaire Français (IUF)
09:50-10:00	Oral Talk 基于 266nm 深紫外拉曼光谱的地外天体潜在物质识别与端元反演研究 Haotian Xu, Shanghai Institute of Technical Physics, Chinese Academy of Sciences
10:00-10:15	Coffee Break
Presider:	
10:15-10:30	Invited Talk TBD Biao Cao, Beijing Normal University
10:30-10:45	Invited Talk TBD Jianping Guo, Chinese Academy of Meteorological Sciences
10:45-11:00	Invited Talk TBD Songtao Lu, Harbin Institute of Technology

11:00-11:15	Invited Talk TBD Zhuoyue Hu
11:15-11:25	Oral Talk 月球 SAR 生成光学图像方法及其在永久阴影区的应用 Tong Xia, Fudan University
11:25-11:35	Oral Talk Martian Geomorphic Feature Mapping with a Multi-Granular Dynamic Aggregation Transformer Yonggang Xiong, Tongji University
11:35-13:30	Lunch

Track 3: Remote Sensing and Space Exploration

Sep.20 Sunday, Noah Room 6, 3F (三楼 诺亚会议室 6)

Presider:

13:30-13:55	Keynote Talk TBD Kemi Xu, Beijing Institute of Technology
13:55-14:10	Invited Talk Alternating Multi-scale Stochastic Differential Equations for Accelerated Inverse Problem Solving Weiwen Wu, Sun Yat-sen University
14:10-14:25	Invited Talk Embodied Intelligence in Unstructured Environments Weiyang Xie, Xidian University
14:25-14:35	Oral Talk Image Deblurring via Frequency Learning Xintian Mao, East China Normal University
14:35-14:45	Oral Talk Chemometric Analysis of Martian LIBS Data Using Deep Learning and Pretrained-Model-Based Transfer Learning Zhicheng Cui, Key Laboratory of Space Active Opto-electronics Technology, Shanghai Institute of Technical Physics, Chinese Academy of Sciences
14:45-14:55	Oral Talk SRRN: A Compact Spectral Residual Refinement Network for Multispectral-to-Hyperspectral Reconstruction of Mars CRISM Data Lu Lu, Tongji University
14:55-15:05	Oral Talk Research on Key Technologies and Retrieval Models for Water Ice Information Extraction from Chang'e-7 Infrared Spectral Imaging Peizheng Liu, Shanghai Institute of Technical Physics, Chinese Academy of Sciences

Track 4: Digital Earth and Intelligent Cognition

Sep.19 Saturday, Noah Room 3, 3F (三楼 诺亚会议室 3)

Presider:

13:30-13:55	Keynote Talk TBD Xianbin Cao, Beihang University
13:55-14:10	Keynote Talk TBD Xiyang Zhi, Harbin University of Technology
14:10-14:25	Invited Talk Research Progress of Multimodal Remote Sensing Large Models Zhenwei Shi, Beihang University
14:25-14:40	Invited Talk TBD Hui Xie,
14:40-14:55	Invited Talk Reflective Tomography-LiDAR for High-Precision 3D Reconstruction of Space Targets Xinyuan Zhang, National University of Defense Technology
14:55-15:05	Oral Talk Physics-Informed Coupled Modeling of Spaceborne Infrared Detection of Weak Aerial Targets Liyuan He, Shanghai Institute of Technical Physics, Chinese Academy of Sciences
15:05-15:20	Coffee Break
Presider:	
15:20-15:35	Invited Talk Geoscience Knowledge Graph Xinbing Wang, Shanghai Jiao Tong University
15:35-15:50	Invited Talk TBD Dapeng Tian, Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences

15:50-16:05	Invited Talk Perspectives on the Application of Artificial Intelligence in opto-electronic Imaging Fei Liu, Xidian University
16:05-16:20	Invited Talk Multi-scale Issues in Cross-media Detection Pingyue Lv, Shanghai institute of technical physics, Chinese academy of sciences
16:20-16:35	Invited Talk Intelligent Algorithm-Empowered Novel Optical Measurements Jiamiao Yang, Shanghai Jiao Tong University
16:35-16:45	Oral Talk Characterization of the Land Surface Thermal Infrared Background and Comparison with Satellite Observations for the March 28, 2025 Myanmar Earthquake Ningbo Zhang, Shanghai Institute of Technical Physics, Chinese Academy of Sciences
17:00-18:30	Poster Session
18:30-20:30	Banquet

Track 4: Digital Earth and Intelligent Cognition

Sep.20 Sunday, Noah Room 3, 3F (三楼 诺亚会议室 3)

Presider:

08:30-08:45	Invited Talk Spatiotemporal Intelligence Driven Air Ground Collaborative Perception: Technologies and Progress Chun Liu, Tongji University
08:45-09:00	Invited Talk Remote Sensing Big Data Platform and Its Applications in Sustainable Development in the Digital Intelligence Era Xiaoping Du, Aerospace Information Research Institute, Chinese Academy of Sciences
09:00-09:15	Invited Talk Generative deep-learning-embedded asynchronous structured light for three-dimensional imaging Lei Lv, Henan University of Technology
09:15-09:30	Invited Talk Towards World Model-Empowered Integrated Sensing, Communication, and Decision for Complex Unmanned Systems Yongpeng Wu
09:30-09:45	Invited Talk
09:45-09:55	Oral Talk AEF-FloodLM: Integrating AlphaEarth Embeddings for Visual Question Answering in Remote Sensing Flood Scenes Xinzhi Zhang, Beihang University
09:55-10:05	Oral Talk Large dynamic range Shack-Hartmann wavefront sensing based on a graph-theoretic computational model Lintong Du, Shanghai Jiao Tong University
10:05-10:20	Coffee Break

Presider:

10:20-10:35	Invited Talk Low-Altitude Intelligent Remote Sensing and Its Applications in Areal Inspection Xiang Li, East China Normal University
10:35-10:50	Invited Talk Research on Key Technologies and Applications of Fengyun-3 Meteorological Satellites for Arctic Sea Ice Monitoring and Identification Cailan Gong, Shanghai Institute of Technical Physics, Chinese Academy of Sciences
10:50-11:05	Invited Talk Modeling and simulation of micro-level crowd behaviors Wenhong Li, Aerospace Information Research Institute, Chinese Academy of Sciences
11:05-11:20	Invited Talk 2D Ferroelectric Materials for Neuromorphic Computing Fucai Liu, University of Electronic Science and Technology of China
11:20-11:35	Invited Talk TBD Fan Wu, Fudan University
11:35-11:45	Oral Talk Tool-Augmented LLM Agents for Trustworthy Earth System Analysis Luyu Han, Shanghai Jiao Tong University
11:45-11:55	Oral Talk Intelligent Recognition Enabled by Large-Scale, Gate-Tunable MoS₂ Optoelectronic Arrays Kunyu Wang, Shanghai Institute of Technical Physics, Chinese Academy of Sciences
11:55-13:30	Lunch

Track 4: Digital Earth and Intelligent Cognition

Sep.20 Sunday, Noah Room 3, 3F (三楼 诺亚会议室 3)

Presider:

13:30-13:45	Invited Talk TBD Wenjie Deng, Beijing University of Technology
13:45-14:00	Invited Talk TBD Fei Xue, Zhejiang University
14:00-14:10	Invited Talk Gate-Reconfigurable Multifunctional Photodetection Through Realigning Energy Band Shenglan Hao, East China Normal University
14:10-14:20	Oral Talk Counterfactual Remote-Sensing Screening and Detectability Assessment of Localized Thermal Anomalies Associated with Tunnel Engineering in High-Altitude Cold Regions Haochen Bao, Shanghai Institute of Technical Physics, Chinese Academy of Sciences,
14:20-14:30	Oral Talk MST-Mamba: Multi-Scale Token-Enhanced Mamba for Hyperspectral Image Generation Yuanyi Zhang, Beihang University
14:30-14:40	Oral Talk Bidirectional Cross-Spatial Fusion Method of LiDAR Point Clouds and Images for Autonomous Driving Zhenglei Dou, National University of Defense Technology

Track 5: Infrared and Interdisciplinary Fields

Sep.19 Saturday, Ya Mei Ballroom 3, 3F (3楼 亚美 3)

Presider:

13:30-13:55	Keynote Talk TBD Liantuan Xiao, Taiyuan University of Technology
13:55-14:10	Invited Talk TBD Qingjiang Li, National University of Defense Technology
14:10-14:25	Invited Talk TBD Chao Zhao, Institute of Semiconductors, Chinese Academy of Sciences
14:25-14:40	Invited Talk TBD Junliang Liu, Jiangnan University
14:40-14:55	Invited Talk 面向紫外至短波红外宽谱偏振探测的各向异性范德华材料与器件 Juehan Yang, Institute of Semiconductors, Chinese Academy of Sciences
14:55-15:10	Invited Talk Low dimensional semiconductor heterojunction based infrared detectors and their applications Yufeng Liu, Shanghai Institute of Technology
15:10-15:25	Coffee Break
15:25-15:50	Keynote Talk Far-/Medium-infrared All-sky Explorer (FAMAE) Chao Liu, National Astronomical Observatories, Chinese Academy of Sciences
15:50-16:05	Invited Talk TBD Fan Zhang, Fudan University
16:05-16:20	Invited Talk TBD Huixin Zhou, Xidian University

16:20-16:35	Invited Talk Research on the Enhancement of Photodetection Capability of Photodetectors by Interface Effects Feng Qiu, Yunnan University
16:35-16:50	Invited Talk Motion tracking with in-sensor graded encoding and compression Jiewei Chen, South China Normal University
16:50-17:05	Invited Talk TBD Yi Zhuo, Peking University
17:05-17:15	Oral Talk Design of a Readout Circuit Chip for Quantum-Dot Infrared Dynamic Vision Sensors Weiyi Tang, Fudan University
17:00-18:30	Poster Session
18:30-20:30	Banquet

Track 5: Infrared and Interdisciplinary Fields

Sep.20 Sunday, Ya Mei Ballroom 3, 3F (3楼亚美3)

Presider:

08:30-08:55	Keynote Talk TBD Xiubao Sui, Nanjing University of Science and Technology
08:55-09:10	Invited Talk Metasurface-Integrated Multi-Quantum-Well Detectors for Infrared Applications Yiyang Xie, Beijing University of Technology
09:10-09:25	Invited Talk Some new structures of mid-infrared quantum cascade lasers Bo Meng, Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences
09:25-09:40	Invited Talk Growth Mechanisms of van der Waals Epitaxial Heterointegration and Their Application to Interlayer Excitons Xiaoming Yuan, Central South University
09:40-09:55	Invited Talk Direct All-Electrical Decoding of Infrared Structured Light: From Scalar Vortex to Vector Vortex Beams on Chip Mingjin Dai, Zhengzhou University
09:55-10:10	Invited Talk From Resonant Light Trapping to Reconfigurable Strong Coupling in Infrared Dielectric Metasurfaces Bowen Jia, Wuhan University of Technology
10:10-10:20	Oral Talk Sensing-memory coupled retinomorphic device for dim-light vision Xuelong Liu, Fudan University
10:20-10:35	Coffee Break
10:35-11:00	Keynote Talk TBD Lei Ye, Huazhong University of Science and Technology
11:00-11:15	Invited Talk Scalable Metamaterials for light and thermal management Yang Li, Zhejiang University

11:15-11:30	Invited Talk Carbon nanotubes-based flexible electrochemical infrared-tunable device Kerui Li, Donghua University
11:30-11:45	Invited Talk VO₂ based multiband dynamic optical thermal regulation Shuliang Dou, Harbin Institute of technology
11:45-12:00	Invited Talk Infrared Superconductor Nanowire Single-Photon Detector Hao Wang, Nanjing University
12:00-12:10	Oral Talk Spatial Optical Encoding with a MoS₂ Floating-Gate Phototransistor Array for Robotic Vision Mingfei Dang, Shanghai University
12:20-13:30	Lunch

Track 5: Infrared and Interdisciplinary Fields

Sep.20 Sunday, Ya Mei Ballroom 3, 3F (3楼亚美3)

Presider:

13:30-13:55	Keynote Talk Integrated Ultraviolet Optoelectronics for Communication and Imaging Haiding Sun, University of Science and Technology of China
13:55-14:10	Invited Talk TBD Shaobo Cheng, Zhengzhou University
14:10-14:25	Invited Talk TBD Yu Zhou, Fudan University
14:25-14:40	Invited Talk Hetero-Integration of Mixed-Dimensional van der Waals Semiconductors for UV-IR Dual-Color Photodetection Feng Wu, Huazhong University of Science and Technology
14:40-14:55	Invited Talk TBD Ziqing Li, Fudan University
14:55-15:05	Oral Talk Ferroelectric Reconfigurable Homo Junction Miniaturized Computational Spectrometers for Dynamic Spectral Sensing Qianru Zhao, Fudan University
15:05-15:15	Oral Talk Research on Infrared Detection and Infrared Camouflage Based on Metasurfaces Qianlong Kang, Shanghai Institute of Technical Physics, Chinese Academy of Sciences
15:15-15:30	Coffee Break
15:30-15:55	Keynote Talk TBD Qiming Zhang, University of Shanghai for Science and Technology
15:55-16:10	Invited Talk Mid-infrared upconversion computational imaging Kun Huang, East China Normal University

16:10-16:25	Invited Talk Flexible Active-Matrix Sensor Arrays based on Oxide Thin-Film Transistors Bowen Zhu, Westlake University
16:25-16:40	Invited Talk Bio-inspired Design and Multi-dimensional Perception of Reconfigurable Visual Sensors Yinlong Tan, National University of Defense Technology
16:40-16:55	Invited Talk TBD Chang Liu, Hunan University
16:55-17:05	Oral Talk CMOS-Compatible Silicon-Based Integrated Miniaturized Spectrometers: Device Engineering, Spectral Reconstruction, and Applications Yuhang Hu, Fudan University

