

NP1: Fiber-Based and Free-Space Sensing	
Location: Conference Room 206, 2F	
November 2, 2026	
13:30-14:00	From Environmental Intelligence to Industrial Diagnostics: Innovative Applications of Distributed Fiber-Optic Sensing (Invited) Chun Hong Kang King Abdullah University of Science and Technology, Saudi Arabia
14:00-14:30	Femtosecond Laser 3D Nano-printed Optical Fiber Tip MEMS Sensor (Invited) Changrui Liao Shenzhen University, China
14:30-14:45	Medium Identification Based on Correlation Analysis: A DAS Field Trial with Telecom Fibers (Oral) Jiawei Luo Télécom Paris, Institut Polytechnique de Paris, France
14:45-15:00	Topology-Aware Distributed Fiber-Optic Sensing for UWB-Degraded Indoor Positioning (Oral) Zhiyang Xue Soochow University, China
15:00-15:15	TV-Mamba: A Triple-View State-Space Framework for Robust Distributed Fiber-Optic Vibration Event Recognition (Oral) Yi Wang Changchun University of Science and Technology, China
15:15-15:30	Condition-Aware Support-Space Learning for Unknown-Fault Detection in DAS-Monitored Belt Conveyors (Oral) Huijuan Wu University of Electronic Science and Technology of China, China
15:30-16:00	Coffee Break
16:00-16:30	Revisiting Multimode Fibers: Emerging Frontiers in Optical Metrology and Interconnects (Invited) Ming Tang Huazhong University of Science and Technology, China
16:30-16:45	Geo-Referencing of Deployed Dark Fiber Segments Using GPS-tracked Vehicles (Oral) Tom Jürgensen Chair of Communications, Kiel University, Germany
16:45-17:00	Simulation Assessment of Pulsed DAS and Coherent DWDM In-band Co-propagating Coexistence (Oral) Roberto Gaudino Politecnico di Torino, Italy
17:00-17:15	Femtosecond laser inscribed mid-infrared FBG temperature sensors operating beyond 4.5 microns (Oral) Kyriacos Kalli Cyprus University of Technology, Cyprus
17:15-17:30	Fiber-Tip Fabry-Pérot Accelerometer Fabricated by Two-Photon Polymerization 3D Printing with Inverse Design Optimization (Oral) Xiaoliang Cao Sun Yat-sen University, China

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November 3, 2026	
08:30-09:00	Flying Particles in Hollow-Core Fibres: Control and Sensing (Invited) Nicolas Joly University of Erlangen-Nuremberg, Erlangen, Germany; Max Planck Institute for the Science of light, Erlangen, Germany
09:00-09:15	A Precise Detection Method for Water Ingress in Hollow-Core Fiber Based on Multi-Feature Fusion of Side Images (Oral) Yanbiao Chang Chinaunicom, China

09:15-09:30	HyperRoad: A Spatial-Spectral Dual-Branch RT-DETR for Snapshot Hyperspectral Road Debris Detection (Oral) Chenhao Qi State Key Laboratory of Information Photonics and Optical Communications Beijing University of Posts and Telecommunications, China
09:30-09:45	Reconstruction-Free Hyperspectral Semantic Segmentation via Task-Driven Diffractive Optical Encoding (Oral) Xiqi Li Beijing University of Posts and Telecommunications, China
09:45-10:00	High-Precision Few-mode Beam Spot Localization based on simplified HRNet (Oral) Kaihua Hu Beijing Jiaotong University, China
10:00-10:30	Coffee Break
10:30-11:00	OFDR-based intelligent optical surface for human activity recognition (Invited) Ting Feng Northeastern University, China
11:00-11:15	Multi-Parameter Demodulation System Based on Co-located Overlapping Fiber Bragg Gratings (Oral) Peiyao Wang
11:15-11:30	DP-BPSK Coherent Correlation OTDR for Optical Phase Perturbation Detection with a Dual-Fixed-Window Differential Scheme (Oral) Botao Yang State Key Laboratory of Optical Communication Technologies and Networks, China
11:30-11:45	Experimental Investigation of Spatial Thermal Heterogeneity in a Pouch Lithium-Ion Battery Using OFDR (Oral) Ziyi Xu University of Science and Technology Beijing, China
11:45-12:00	Comprehensive random multi-point vibration demodulation based on a weak- reflection FBG array with OFDR (Oral) Chaonan Wang Beijing Jiaotong University, China
12:00-13:30	Lunch
13:30-14:00	Integrated Forward Transmission Sensing and Communication Systems for optical access networks in the AI Era (Invited) Yaxi Yan The Hong Kong Polytechnic University, Hong Kong, China
14:00-14:15	Experimental Demonstration of Coexisting High-Speed Coherent Transmission and Remote Sensing through a 10-km 7-core Fiber (Oral) Bing Han Huazhong University of Science and Technology, China
14:15-14:30	Vibration Localization over Coherent Optical Fiber Links by Using Full-Stokes Trajectory (Oral) Pu Zhou Westlake University, China
14:30-14:45	Generalized Sensitivity Model for ODSP-Enabled Vibration Phase Detection in Coherent Systems (Oral) Zhao Yan
14:45-15:00	From Signal Representation to Quantum Placement: A Systematic Study of Quantum Learning for Optical Fiber Event Classification (Oral) Khouloud Abdelli Nokia Bell Labs, Germany
15:00-15:15	Low self-noise depolarized FOG by optimizing Sagnac Interferometer Assembly (Oral) Ze Gao Beihang University, China
15:15-15:30	Hierarchical Phase-Frequency Sweep Linearization for FMCW LiDAR Using a Shared-MZI Architecture (Oral) Hongduan Fan Southern University of Science and Technology, China

15:30-17:30	Coffee Break & Poster Session
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November 4, 2026	
08:30-09:00	Terahertz metasensor for species identification of Cryptococcus (Invited) Haisu Li Beijing Jiaotong University, China
09:00-09:15	Contactless Obstructive Sleep Apnea Detection System via Fiber Optic Sensors and Machine Learning (Oral) Zihan Yu The Hong Kong Polytechnic University, Hong Kong, China
09:15-09:30	Interferometric Sensor Based on Spliced Hollow-Core Fiber for Cardiovascular Multi-Parameter Measurement (Oral) Jing Li Sun Yat-sen University, China
09:30-09:45	Optical Fiber Driven Micro-catheter Robot based on Photothermal Effect (Oral) Zhongjie Hou Sun Yat-sen University, China
09:45-10:30	Coffee Break
10:30-11:00	Cross-Domain Hybrid Demodulation for Multiparameter Fiber-Optic Sensing and Its Applications (Invited) Beilei Wu
11:00-11:15	Fourier Neural Operator-Based Spectral Expansion for High-Resolution FFT Demodulation of Fiber Fabry-Perot Sensors (Oral) Hao Luo Shenzhen University, China
11:15-11:30	Fiber-Optic Differential Phase Sensing with Large Dynamic Range (Oral) Haoyan Liu Peking University, China