

T2: Optical Transmission Systems	
Location: Multi-function Hall B, 1F	
November 2, 2026	
13:30-14:30	Key Technology Breakthroughs in Coherent Optical Transmission: From 100G to 1.6T and Beyond (Tutorial) Minggang Si Huawei Technologies, co,ltd, China
14:30-15:00	Evaluation and Mitigation of the EEPN Penalties in OIF 1600ZR+ and ITU-T B1T-OTN Transmission Systems (Invited) Xiang Liu Huawei Hong Kong Research Center, Hong Kong, China
15:00-15:15	Pilot-tone-free Ultra-Fast RSOP Tracking for 800G ZR Digital Subcarrier-Multiplexed Coherent Transmission (Oral) Dongxu Lu Westlake Institute for Optoelectronics, China
15:15-15:30	Reliability-Weighted Hybrid Stokes-Jones Tracking for Sparse-Pilot Fast Polarization Demultiplexing in Coherent DP-16QAM System (Oral) Youmin Zhang Huazhong University of Science and Technology, China
15:30-16:00	Coffee Break
16:00-16:30	Recent advances in space-division multiplexed transmission (Invited) Georg Rademacher University of Stuttgart, Germany
16:30-16:45	620-km Field-Deployed Transmission over a Submarine 7-Core Fiber Cable: A Record in Distance and Per-Core Capacity-Distance Product (Oral) Ruqi Chen Sun-Yatsen University, China
16:45-17:00	Fast-Converging Spatially Pre-Whitened LMS MIMO Equalization for MDL-Impaired Long-Haul Mode-Division Multiplexing Systems (Oral) Xiuli Ji Pengcheng Laboratory, China; Beijing University of Posts and Telecommunications, China
17:00-17:15	A Highly Integrated 4-Core EDFA with a Record-low Noise Figure (Oral) Bowen Zhang State Key Laboratory of Precision Measuring Technology and Instruments, Key Laboratory of Opto-Electronic Information Technology of Ministry of Education, Tianjin Key Laboratory of Integrated Opto-Electronics Technologies and Devices, School of Precision Instruments and Opto-Electronics Engineering Tianjin University, China
17:15-17:30	Operating-Condition-Aware Modeling for Channel-Resolved C+L-Band Effective Inter-Core Crosstalk Budgeting in a Weakly Coupled Dual-Core EDFA (Oral) Wuyan Wang Huazhong University of Science and Technology, China

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November 3, 2026	
08:30-09:30	Integrated Optical Fiber Sensing and Communication Systems (Tutorial) Chao Lu The Hong Kong Polytechnic University, Hong Kong, China
09:30-10:00	Research on the Fiber-optic Integrated Sensing and Communication System using Enhanced Forward-transmission Distributed Vibration Sensor (Invited) Fei Liu University of Science and Technology Beijing, China
10:00-10:30	Coffee Break
10:30-11:00	Electro-optic comb enabling next-generation multi-functional and power-efficient optical fiber networks (Invited) Chenbo Zhang Peking University, China
11:00-11:30	End-to-end autoencoder learning for photonic terahertz communication (Invited) Jiao Zhang Purple Mountain Laboratories, China
11:30-11:45	The Impact of SMF Patch Cords on Performance in the Multi-Span Real-time Transmission Systems (Oral) Feng Lipeng China Telecom Beijing Research Institute, China
11:45-12:00	Single Microcomb Source for Futuristic Submarine Links Employing 32 Fiber Pairs (Oral) Sameer Ahmad Mir Technical University of Denmark, Denmark

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November 4, 2026	
08:30-09:00	Scaling Optical Interconnects for the AI Era: From Ultra-High-Speed TFLN Modulators to Cost-Effective Transceivers (Invited) Xiansong Fang Huawei Technologies, China
09:00-09:30	Multi-Dimensional Photonics Integrated Chips and Systems for Optical Interconnection and Computing (Invited) Junwen Zhang Fudan University, China
09:30-09:45	12.8-Tbit/s Coherent WDM Bi-directional Transmission without Phase Recovery based on Wavelength Multicast of a Self-injection Locking Laser (Oral) Huabei Liu PengCheng Laboratory, China
09:45-10:00	Joint Partial-Response Hybrid-Path Neural Network Equalization and Simplified MLSD for Short-Reach Optical Interconnects (Oral) Zedi Zhang National University of Defense Technology, China
10:00-10:30	Coffee Break
10:30-11:00	Practical and Accurate Assessment of Device Nonlinearities in Optical Transceivers (Invited) Zhenning Tao Fujitsu R&D Center, China
11:00-11:15	Polarization-Insensitive Transceiver IQ Polarity Reversal Identification in Dual-Polarization Coherent Systems (Oral) Hong Lin
11:15-11:30	Single-Step Digital Backpropagation for Kerr Nonlinearity Compensation in O-band Coherent Transmission (Oral) Ogulcan Erdogan Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut, HHI, Germany; ID Photonics GmbH, Germany
11:30-11:45	Hybrid Physics-Guided ML-GN Model for Extended NLI Evaluation (Oral) Emanuele Virgillito Politecnico di Torino, Italy
11:45-12:00	Multi-Receptive-Field Residual Boosting Equalization for DML-IM/DD Links (Oral) XuYuting Pengcheng Laboratory, China; Peking University, China
12:00-13:30	Lunch
13:30-14:00	Digital twin of Next-generation deployed HCF networks (Invited) Alan Pak Tao Lau The Hong Kong Polytechnic University, Hong Kong, China
14:00-14:15	Automatic Channel Number Aware Control of EDFAs for Hollow-Core Fiber Systems (Oral) Zhiping Jiang Huawei Technologies Canada, Canada
14:15-14:30	Optical-Amplification-Free 305-GBd OOK and 165-GBd PAM-4 C-Band IM/DD Transmission Over 1.4-km AR-HCF at Faster-Than-Nyquist Ratios of 146.0% and 33.1% (Oral) Cancan Chen Pengcheng Laboratory, China
14:30-14:45	Fading-Noise Suppression in ϕ-OTDR Based on Multi-Parameter Optimal-Weight Spatial-Mode Diversity (Oral) Qiong Wang College of Electrical and Electronic Engineering, Wenzhou University, China
14:45-15:00	Small-Sample Classification of Fiber Vibration Events Based on Augmentation Fusion Network in Forward-Transmission Scenarios (Oral) Hao Li StateKey Laboratory of Information Photonics and Optical Communications, China; Beijing University of Posts and Telecommunications, China
15:00-15:15	Localization of Overlapped Fiber Anomalies via Spatial Response Function Matching for Power Profile Estimation (Oral) Rundong Xie
15:15-15:30	Quantitative Center-Frequency-Shift Estimation for DBP-Based Optical Filter Monitoring (Oral) Runzhe Fan University of Science and Technology Beijing, China
15:30-16:00	Coffee Break
16:00-16:30	The Exploration and Practice of New Information Infrastructure in the AI Era (Invited) Xiaotian Jiang China Telecom Research Institute, China

16:30-16:45	First Ultra-low-loss Large-effective-area Cut-off Wavelength Down-shifted Four-core Fiber Cable Testbed for Next-generation Ultra-high-speed S+C+L-band Transmission (Oral) Jian Cui China Mobile Communications Group Co., Ltd., China
16:45-17:00	Dual-Time-Scale Statistical Analysis of Deep-Fading Suppression and Temporal Variability in Six-Mode Mode-Selective Photonic-Lantern Mode-Diversity Reception (Oral) Xiaokai Li Beijing University of Posts and Telecommunications, China
17:00-17:15	Multimodal Point Cloud Semantic Communication over Coherent Optical Fiber Links (Oral) Di Geng State Key Laboratory of Information Photonics and Optical Communications Beijing University of Posts and
17:15-17:30	Short-Frame CRC-Aided Sequential Candidate Search for High-Order MPPM Optical Sensitivity Enhancement (Oral) Shumin Cheng Beijing University of Posts and Telecommunications, China