

T1: Short-Reach Transmission Systems for Data-Center, Access, and Mobile Networks	
Location: Multi-function Hall A, 1F	
November 2, 2026	
FSO and Wireless Access Presider: Jiahao Huo, University of Science and Technology Beijing, China	
13:30-14:00	Enabling Cloud Radio Access Network (C-RAN): Why precise clock and carrier frequencies are essential and how to synchronise them (Invited) Zhixin Liu University London College, United Kingdom
14:00-14:30	Conflict-Aware Local Search for Single-Mirror OIRS Path Assignment in a 16-Rack FSO Data Center Pod (Invited) Tianhua Xu University of Warwick, United Kingdom
14:30-15:00	Recent Progress of Millimeter-Wave and Optical Wireless Communications for Intra-Data Center Networks (Invited) Zhouyi Hu Beijing Jiaotong University, China
15:00-15:30	Toward Converged Fixed-Mobile Coherent Optical Access Networks via Digital-Analog Hybrid Transmission (Invited) Qi Wu The Hong Kong Polytechnic University, Hong Kong, China
15:30-16:00	Coffee Break
Advanced Coding Technology Presider: Tianwai Bo, Beijing Institute of Technology, China	
16:00-16:30	Low-Power, High-Speed Optical Interconnects Enabled by Tomlinson-Harashima Precoding (Invited) Guoxiu Huang 1FINITY Inc., Japan
16:30-16:45	FFE-Guided Cross-Module Low-Complexity LDPC Decoding for Coherent Optical Receivers (Oral) Pengfei He State Key Laboratory of Information Photonics and Optical Communications Beijing University of Posts and Telecommunications
16:45-17:15	Chaotic Encryption for Secure Optical Data-center Interconnects (Invited) Calvin Chun-Kit Chan The Chinese University of Hong Kong, Hong Kong, China
17:15-17:30	Low-Coherence ASE Source for SCBI Mitigation in Weakly-Coupled IM/DD-MDM Systems (Oral) Kuohai Zhang University of Science and Technology Beijing, China

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November 3, 2026	
Impairments Mitigation Presider: Kangping Zhong, The Hong Kong Polytechnic University, Hong Kong, China	

08:30-08:45	Low Complexity Sub-band Volterra Equalizer For EML-based IM/DD System (Oral) Fuchan Xue Beijing Institute of Technology, China
08:45-09:00	High Sensitivity and RIN-Tolerant Multipath Interference Localization in IM/DD PAM4 Systems by Conditional Power Difference (Oral) Shen Wang University of Electronic Science and Technology of China, China
09:00-09:15	Reset-Free Adaptive Polarization Control for LiNbO3 Polarization Controller in Self-Coherent Detection Systems (Oral) Lei Pang School of Electronics and Information, Hangzhou Dianzi University Country: China, China; Westlake Institute for Optoelectronics, China
09:15-09:30	Residual-Carrier Vector Compensation Enabling Nearly DSP-Free Coherent Transmission over 25-km Hollow-Core Fiber with MHz Lasers (Oral) Tianhong Zhang Peking University, China
09:30-10:00	“3U”Optical Interconnection Technology Towards Data Center Application (Invited) Chao Yang China Information Communication Technologies Group Corporation, China
10:00-10:30	Coffee Break
High-Speed PON Presider: Ming Luo, China Information and Communication Technologies Group Corporation, China	
10:30-11:00	Flexible PON Enabled by Asymmetric Polar-BCH Product Codes (Invited) Bin Chen Hefei University of Technology, China
11:00-11:15	256 Gb/s Coherent PON over 25-km Hollow-Core Fiber with 52-dB Power Budget (Oral) Yutong Pan Peking University, China
11:15-11:30	Fast Convergence Joint Clock Recovery and Equalization for Non-integer-oversampling 200G DP-IM PON Burst Reception (Oral) Junxu Tang Huazhong University of Science and Technology, China
11:30-12:00	Optical modulation alternatives for direct-detection based VHSP downstream (Invited) Ivan Cano Huawei, Germany
Optoelectronics Devices for Short Reach Presider: Xiang Li, China University of Geosciences, China	
13:30-14:00	Broadband Single-Drive Optical Single-Sideband Modulation on Thin-Film Lithium Niobate (Invited) Changjian Guo South China Normal University, China
14:00-14:15	Modal Bandwidth Requirements and Reach Capability of Multimode Fibers for 200G VCSEL Links Near 1060 nm (Oral) Xin Chen Corning Incorporated, United States
14:15-14:30	Transmission Performance of Single-Mode VCSEL-Based 400G QSFP112 SR4 over Single-Mode Fiber (Oral) Yun Bao Alibaba Cloud, China

14:30-14:45	A TIR Concentrator Based High-Efficiency Micro-LED Array Optical Interconnect System (Oral) Mengze Qi Westlake University, United States
14:45-15:00	Net 3.15 Tb/s O-Band IM/DD DWDM Transmission Over 10-km SMF Enabled by a Quantum-Dot Mode-Locked Laser Frequency Comb for DCIs (Oral) Shouchuan Ma Pengcheng Laboratory, China; Shenzhen International Graduate School, Tsinghua University, China
15:00-15:30	Integrated Optical Frequency Combs for Broadband Signal Processing and Optical Communications (Invited) Huanfa Peng Karlsruhe Institute of Technology, Germany
15:30-17:30	Coffee Break & Poster Session