

N2: Photonics for Data Center and Computing Systems	
Location: Conference Room 103A, 1F	
November 3, 2026	
Session1--Optical Interconnect and Integration Presider: Meng Xiang (Guangdong University of Technology)	
13:30-14:30	Optical Interconnects for Cloud and AI Data Centers (Tutorial) Chongjin Xie PhotonicX AI, Singapore
14:30-14:45	1.6 Tb/s OSFP-XD Transceiver Based on Silicon Photonic Integrated Circuit (Oral) Du Lei Zhangjiang Laboratory, China
14:45-15:00	Metric-Driven Device-to-Link Electro-Photonics Co-Design for 106.25-Gb/s PAM4 Optical Interfaces (Oral) Jue Gong Zhejiang Lab, China
15:00-15:30	Optoelectronic Integrated Information Sensing and Chips (Invited) Sha Zhu Nankai University, China
15:30-17:30	Coffee Break & Poster Session

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Location: Conference Room 103A, 1F	
November 4, 2026	
Session2-Optical Switch for AI Infra Presider: Wei Wang (Beijing University of Posts and Telecommunications)	
08:30-09:00	Liquid Crystal Devices for AI Computing (Invited) Haining Yang Southeast University, China
09:00-09:15	An 8 x 8 High-Speed MZI Optical Switch with a Scalable Board-Level Driver (Oral) Yu Zhou Shanghai Jiao Tong University, China
09:15-09:30	RailBridge: Sparse Optical Bridging for Multi-Tenant Spine-less GPU Clusters (Oral) Xiaorun Wang Beijing University of Posts and Telecommunications, China
09:30-10:00	TBD (Invited) Shizhen Zhao Shanghai Jiao Tong University, China
10:00-10:30	Coffee Break
Session3-Photonic AI Computing Presider: Liangjun Lu (Shanghai Jiao Tong University)	

10:30-11:00	Digital Optical Multiplication for High-Precision Photonic AI Computing (Invited) Deming Kong Technical University of Denmark, Denmark
11:00-11:15	Programmable Photonic In-Memory Accelerator with Ultrafast Optical I/O (Oral) Tao Shu Zhejiang University, China
11:15-11:30	Hardware-Aware Training Based on Structural Re-parameterization for Optical Convolutional Neural Networks (Oral) Zheng Li Beijing University of Posts and Telecommunications, China
11:30-12:00	Low-Phase-Noise Optical Frequency Division for Photonic Computing and Data-Center Clocking (Invited) Xiaopeng Xie Peking University, China
Session4-Optical AI Architecture and Network Presider: Xiao Lin (Fuzhou University)	
13:30-14:30	Toward All-Optical AI Fabrics for Sustainable Distributed Intelligence in ION-2030 (Tutorial) Raul Munoz CENTRE TECNOLÒGIC DE TELECOMUNICACIONS DE CATALUNYA (CTTC), Spain
14:30-14:45	All-Optical Network Coding Enabled Collective Communication Using Multi-Agent DRL over Geo-distributed DC Networks (Oral) Xin Wang Beijing Information Science and Technology University, China
14:45-15:00	Joint In-Network Storage and Transfer Scheme for Wide-Area Pipeline Parallelism in OCPN (Oral) Xiao Lin Fuzhou University, China
15:00-15:30	PRON: A Low-Latency Periodically Reconfigurable Network Tailored for AI Pre-training (Invited) Fulong Ysn Beijing University of Posts and Telecommunications, China
15:30-16:00	Coffee Break
Session5-Photoics for AI and Computing Presider: Yuxin Xu (Zhejiang University of Technology)	
16:00-16:30	Opportunities and Challenges: The Future Outlook of Pluggable Optical Modules in AI Data Centers (Invited) Hao Liu China Telecom Research Institute, China
16:30-16:45	TOE-Map: Joint Thermal, Optical, and Electrical-aware Task Mapping for ONoCs (Oral) Zhongjie Mao Beijing University of Posts and Telecommunications, China

16:45-17:00	Deep photonic reservoir computing based on lithium niobate microring resonators (Oral) Zhuoling Feng Southwest Jiaotong University, China
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