WCNCA 2026 Technical Program

October 16, 2026
Sheraton Shenzhen Nanshan | Meeting Room 2, 3F
No. 4088 Liuxian Avenue, Nanshan District, Shenzhen, Guangdong, China

Program Overview

Time	Program
08:50-09:00	Opening
09:00-10:40	Session 1: Networking and Optical Communication
10:40-11:00	Coffee Break
11:00-12:20	Session 2: Applications I
12:20-14:00	Lunch Break
14:00-15:00	Session 3: Applications II
15:00-15:20	Coffee Break
15:20-17:00	Session 4: Computing Power

Detailed Program

Opening | 08:50-09:00

Session 1: Networking and Optical Communication | 09:00-10:40

09:00-09:20 **Integrated Silicon Nanoseconds Wavelength-Selective Switch for Reconfigurable AI Cluster Interconnects**
Yu Wang

09:20-09:40 **Technologies for Intra-Data-Center Optical Interconnects in the AI Era**
Xue Zhao, Shen Li, Songyuan Hu, Chao Li, Zhixue He

09:40-10:00 **Privacy-Preserving AI Model Training in Computing-Power Networks: A Program-to-Data Paradigm**
Weizhe Zhang, Renhao Lu, ChuanYi Liu, Hui He, Zejun Wang, Jigang Wang, Liang Yan, Yanchen Qiao, Binxing Fang

10:00-10:20 **A Prototype-Knowledge-Base-Driven Multi-Agent Task-Oriented Semantic Communication Network for Disaster Rescue**
Jiaxin Zhu, Yue Bi, Guangming Shi

10:20-10:40 **Hierarchical Traffic Orchestration for Multiple Intelligent Integrated Gateways in High-Speed Cross-Domain Interconnection of Compute-Network Native Networks**
Yushun Shen, Jiaqian Man, Wenti Yang, Chengxiao Yu, Jia Chen

Coffee Break | 10:40-11:00

Session 2: Applications I | 11:00-12:20

11:00-11:20 **Monitoring Distributed Intelligent Applications in Computing Networks: From Data Drift to End-to-End Observability**
Qiang Wang, Xin Liu, Yue Yu, Dawei Feng, Hui Wang

11:20-11:40 **Context-Aware Hierarchical Intent Prediction for Non-Cooperative UAVs from Partial Trajectories**
Shan Cong, Tianlu Pan, Linhui Xiao

11:40-12:00 **FPTR: Feasibility-Preserving Transactional Refinement for Deadline-Constrained Joint Beam and Resource Allocation**
Minghao Kong, Zirong Liu, Jianhao Wu, Muyao Chen, Jianxin Wu, Rongjie Wang

12:00-12:20 **DST-Net: Decomposed Spatio-Temporal Network for Time Series Forecasting**
Yaohua Zha, Hai Wu, Shu-Tao Xia

Lunch Break | 12:20-14:00

Session 3: Applications II | 14:00-15:00

14:00-14:20 **Efficient Adversarial Training via Criticality-Aware Fine-Tuning**
Wenyun Li, Guiping Cao, Dongmei Jiang, Xiangyuan Lan, Zheng Zhang

14:20-14:40 **Mutual Conditional Guidance for Open-Vocabulary Semantic Segmentation with Active Category Grouping**
Tao Wang, Guiping Cao, Xiaoshi Wang, Linhui Xiao, Xiangyuan Lan, Jianguo Zhang

14:40-15:00 **Towards Agent Operating Systems: A Survey of Architectures, System Mechanisms, and Challenges**
Wanru Zhu, Guiying Li, Longkun Zou, Ke Chen

Coffee Break | 15:00-15:20

Session 4: Computing Power | 15:20-17:00

15:20-15:40 **VCoS: DRL-Based Joint Scheduling of Video Coding Tasks over Computing Power Networks**
Xin Chen, Xiao Yang

15:40-16:00 **ServeBench Under Audit: Reproducibility Lessons from Multi-Workload LLM Serving Measurements**
Zaiying Ma, Mengsi Lyu, Zhuo Chen, You Zhou, Ruidi Zhu, Lingxiao Wang, Yonghua Lin, Hang Su, Shengyi Ding, Feng Zhang

16:00-16:20 **Privacy-Preserving Data Selection for Trusted Data Circulation in Computing-Power Networks**
Jiaze Wang, Jinglong Luo, Xun Zhou, Yehong Zhang

16:20-16:40 **Compute-Efficient Latent Flow Matching for Symbolic Regression with Tree-Structured VAE**
Xiaoxu Han, Jinghui Zhong, Yu Wang, Xin Mu

16:40-17:00 **Shore Proposes, UAV Verifies: Persistent Identification and Tracking of Coastal Non-Cooperative UAVs under Computing-Power Networks**
Tianyu Hao, Tianlu Pan