

万物互联 智创未来

The 10th IEEE International Conference on Smart Internet of Things
(IEEE SmartIoT 2026)

第10届IEEE智慧物联网国际会议

会议手册

CONFERENCE HANDBOOK

August 21-24, 2026

Shenyang, China



中国移动
China Mobile

H3C
数字化解决方案领导者

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会议介绍
INTRODUCTION

Internet of Things (IoT) plays an important role in the current and future generation of information, network, and communication developing and applications. Smart IoT is an exciting emerging research field that has great potential to transform both our understanding of fundamental computer science principles and our standard of living. IoT is being employed in more and more areas making “Everything Smart”, such as smart home, smart city, intelligent transportation, environment monitoring, security systems, and advanced manufacturing. IEEE International Conference on Smart Internet of Things (IEEE SmartIoT) focuses on these challenges.



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Welcome Message from the General Chairs

On behalf of the General Chairs and the Organizing Committee, it is our distinct pleasure to welcome you to the 2026 IEEE 10th International Conference on Smart Internet of Things (IEEE SmartIoT 2026), proudly sponsored by IEEE and the IEEE Computer Society.

This year, we are thrilled to host SmartIoT 2026 in Shenyang, China. Shenyang is a historic and industrial powerhouse in Northeast Asia, renowned for its imperial palaces, majestic mausoleums, and vibrant blend of Manchu and Chinese cultures, alongside its modern skyline along the Hunhe River. As a key manufacturing and innovation hub in China, Shenyang brings together top-tier universities and research institutions, a growing ecosystem for smart technology and robotics, and a resilient, welcoming community—an ideal setting for cross-disciplinary exchange and industry–academia collaboration. The goal of the conference is to provide a premier international platform for academics and practitioners from around the world to share and discuss their latest research on all facets of the Internet of Things.

The technical program committee has diligently worked to ensure that the conference will be enriching and successful. The proceedings of the conference will be published by the Computer Society Press (CPS) and made available through IEEE Xplore. We owe a debt of gratitude to the Steering Committee Chairs for their trust and guidance in organizing this prestigious conference. We also extend our heartfelt thanks to all members of the Organizing Committee and Program Committee for their invaluable efforts and support.

We are deeply appreciative of the authors who have chosen to submit their papers to SmartIoT 2026, contributing significantly to the richness of our discussions. We hope that everyone participating in SmartIoT 2026 finds this event intellectually invigorating and professionally fulfilling.

Thank you. We look forward to welcoming you to the conference in August 2026.

Junshan Zhang, Haibin Yu, Jamal Deen, Xingwei Wang
General Chairs, IEEE SmartIoT 2026



Welcome Message from the TPC Chairs

On behalf of the technical program committee, we are delighted to invite you to participate in the 2026 IEEE 10th International Conference on Smart Internet of Things (IEEE SmartIoT 2026), to be held in Shenyang, China on August 21-24, 2026.

This year, we have received a total of 136 submissions from over 20 countries and regions. Each submission underwent a thorough review process, with each paper meticulously peer-reviewed by three experts. Our technical program committee, comprising esteemed members from across the globe, ensured a fair and unbiased review process by separating authors and PC members from the same institutions to prevent any conflicts of interest. The manuscripts were evaluated based on their originality, quality, presentation, and relevance to the conference's themes. After a stringent selection process, 50 papers have been accepted as regular contributions, resulting in an acceptance rate of approximately 36.76%. All accepted papers will be presented at the conference and included in the conference proceedings, which will be published in IEEE Xplore.

It is our great pleasure to present to you this high-quality and comprehensive technical program. We are confident that it will inspire your research and provide valuable insights into the latest developments in the field of Smart Internet of Things. We extend our heartfelt thanks to all authors who submitted their papers and express our gratitude to the track co-chairs for their leadership and dedication to the review process and organization of technical sessions. We also thank the TPC members and other reviewers for their expert evaluations and the session chairs for facilitating effective presentations.

We are excited to welcome you to Shenyang and hope you enjoy the robust technical program and the dynamic interactions at IEEE SmartIoT 2026. We wish you a productive and enjoyable experience at the conference.

Geyong Min, Nirwan Ansari, Jiangchuan Liu, Mo Li

Technical Program Committee Chairs, IEEE SmartIoT 2026



SmartIoT 2026 Technical Program at a Glance

Day 1 — 21st August, 2026

14:00-21:00	Registration (1st Floor, Sheraton Hotel)
18:00-20:00	Welcome Reception Dinner (1st Floor, Western Restaurant, Sheraton Hotel)

Day 2 — 22nd August, 2026 (2nd Floor Grand Ballroom, Sheraton Hotel)

TIME	ACTIVITY	CHAIR
08:30-08:50	Opening Remark <i>Welcome Speech:</i> Xiating Feng , President of Northeastern University Li Jin , Director of Department of Science and Technology of Liaoning Province <i>General Chair Speech:</i> Haibin Yu , Member of the Chinese Academy of Engineering <i>Program Chair Speech:</i> Mo Li , Hong Kong University of Science and Technology, China	Tie Qiu Northeastern University
08:50-09:30	Keynote Speech 1: EIOT: Embodied Intelligence of Things Professor Yunhao Liu Member of the Chinese Academy of Sciences, IEEE/ACM Fellow Tsinghua University, China	Xingwei Wang Northeastern University
09:30-10:10	Keynote Speech 2: Intelligent Network Management for 6G Professor Weihua Zhuang Fellow of the Royal Society of Canada, IEEE Fellow University of Waterloo, Canada	Kenli Li Hunan University
10:10-10:25	Coffee Break	
10:25-10:45	Industry Dynamics & Solutions	Baohong Wang Tianjin Haitian Yuan Productivity Promotion Center Co., Ltd.
10:45-11:25	Keynote Speech 3: Key Technologies of AI-based Communications towards 6G Professor Nei Kato Fellow of the Engineering Academy of Japan, IEEE Fellow Tohoku University, Japan	Zhongxuan Luo Dalian University of Technology

SmartIoT 2026 Technical Program at a Glance

– 8月21日 –

14:00-21:00	签到注册 地 点：中国辽宁沈阳新都绿城喜来登酒店一楼
18:00-20:00	欢迎晚宴 地 点：中国辽宁沈阳新都绿城喜来登酒店一楼西餐厅

– 8月22日 –

地 点：中国辽宁沈阳新都绿城喜来登酒店二楼宴会厅

时 间	内 容	主持人
08:30-08:50	大会开幕式 欢迎致辞：冯夏庭，东北大学校长 金 莉，辽宁省科学技术厅厅长 大会主席致辞：于海斌，中国工程院院士 程序委员会主席致辞：李 默，中国香港科技大学	邱 铁 东北大学
08:50-09:30	主旨报告 1: EIOT: Embodied Intelligence of Things 刘云浩 教授，中国科学院院士、IEEE/ACM 会士 清华大学，中国	王兴伟 东北大学
09:30-10:10	主旨报告 2: Intelligent Network Management for 6G Weihua Zhuang 教授，加拿大工程院院士、IEEE 会士 滑铁卢大学，加拿大	李肯立 湖南大学
10:10-10:25	茶 歇	
10:25-10:45	行业动态	王宝红 天津海天缘生产力 促进中心有限责任公司
10:45-11:25	主旨报告 3: Key Technologies of AI-based Communications towards 6G Nei Kato 教授，日本工程院院士、IEEE 会士 东北大学，日本	罗钟铉 大连理工大学
11:25-12:05	主旨报告 4: Toward Ambient Intelligence in IoT-Edge Systems Rajiv Ranjan 教授，欧洲科学院院士、IEEE 会士 纽卡斯尔大学，英国	宋令阳 北京大学
12:05-14:00	午 餐	
14:00-14:40	主旨报告 5: On the new Cloud Architectures for AI Computing 过敏意 教授，IEEE 会士、CCF 会士 上海交通大学，中国	陈晓江 西北大学

SmartIoT 2026 Technical Program at a Glance

Day 2 — 22nd August, 2026 (2nd Floor Grand Ballroom, Sheraton Hotel)

TIME	ACTIVITY		CHAIR
11:25-12:05	Keynote Speech 4: Toward Ambient Intelligence in IoT-Edge Systems Professor Rajiv Ranjan Fellow of the Academia Europaea, IEEE Fellow Newcastle University, United Kingdom		Lingyang Song Peking University
12:05-14:00	Lunch & Noon Break		
14:00-14:40	Keynote Speech 5: On the new Cloud Architectures for AI Computing Professor Minyi Guo IEEE Fellow, CCF Fellow Shanghai Jiao Tong University, China		Xiaojiang Chen Northwest University
14:40-15:20	Keynote Speech 6: Low-Altitude Internet of Things Professor Mo Li IEEE Fellow Hong Kong University of Science and Technology, China		Luoyi Fu Shanghai Jiao Tong University
15:20-15:35	Coffee Break		
15:35-16:30	Panel Discussion (2nd Floor Grand Ballroom)	Huadong Ma , Beijing University of Posts and Telecommunications Xiuzhen Cheng , Shandong University Zhou Su , Xi'an Jiaotong University Yunhuai Liu , Peking University Deke Guo , Sun Yat-sen University Yuan He , Tsinghua University Xiaohua Tian , Shanghai Jiaotong University Jing Liu , Hebei University of Technology Xiqiang Zhang , China Mobile Communications Group Liaoning Co., Ltd. Shenyang Branch Zan Liu , H3C Group	Liang Zhao Shenyang Aerospace University Xiaoling Zhang Shenyang University of Technology
16:35-17:30	The Establishment Ceremony of the ACM China Council Shenyang Chapter (2nd Floor Grand Ballroom, Sheraton Hotel)		
14:00-17:00	Annual Meeting of the IoT and Big Data Committee of the Liaoning Internet Society (1st Floor Meeting Room 6, Sheraton Hotel)		
18:30-20:30	Banquet & Conference Award Ceremony		

SmartIoT 2026 Technical Program at a Glance

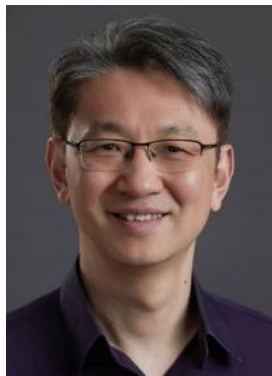
— 8月22日 —

地 点：中国辽宁沈阳新都绿城喜来登酒店二楼宴会厅

时 间	内 容		主持人
14:40-15:20	主旨报告 6: Low-Altitude Internet of Things 李默 教授, IEEE 会士 香港科技大学, 中国		傅洛伊 上海交通大学
15:20-15:35	茶 歇		
15:35-16:30	圆桌论坛 (2 楼大宴会厅)	嘉 宾 马华东, 北京邮电大学 成秀珍, 山东大学 苏 洲, 西安交通大学 刘云淮, 北京大学 郭得科, 中山大学 何 源, 清华大学 田晓华, 上海交通大学 刘 晶, 河北工业大学 张希强, 中国移动通信集团 辽宁有限公司沈阳分公司 刘 赞, 新华三集团	赵 亮 沈阳航空航天大学 张晓玲 沈阳工业大学
16:35-17:30	ACM 中国沈阳分会成立仪式 地 点：中国辽宁沈阳新都绿城喜来登酒店二楼宴会厅		
14:00-17:00	辽宁省互联网协会物联网与大数据工作委员会年会 地 点：中国辽宁沈阳新都绿城喜来登酒店一楼会议室 6		
18:30-20:30	大会颁奖晚宴		

Day 3 — 23 rd August, 2026			
TIME	1st Floor Meeting Room 4 (Zoom ID: 5786251692 PWD: 2026)	1st Floor Meeting Room 5 (Zoom ID: 7579160713 PWD: 2026)	1st Floor Meeting Room 6 (Zoom ID: 9951539172 PWD: 2026)
09:00-10:30	R1: IoT sensing, localization and network optimization	R2: Security and privacy for smart IoT or CPS	R3: Edge computing, fog computing and the compute continuum
	Chair: Bo Cheng Northeastern University	Chair: Shuo Li Tianjin University	Chair: Izhar O. Escudero Ornelas Xi'an Jiaotong-Liverpool University
10:30-10:45	Coffee Break		
10:45-12:15	R4: Artificial intelligence, machine learning and evolutionary computing	R5: Adversarial game theory and security decision-making for IoT/CPS	ICUC: Advanced vision and techniques for intelligent IoT system
	Chair: Yifei Jia Northeastern University	Chair: Ziyu Niu Tianjin University	Chair: Shuang Liu Tianjin University
12:15-14:00	Lunch & Noon Break		
14:00-15:30	R6: Smart cities, intelligent transportation and internet of vehicles	R7: Smart Industrial and environmental IoT application	R8: Social networks, multimedia and mobile computing
	Chair: Kaitian Zheng Xidian University	Chair: Jiancheng Chi Dalian University of Technology	Chair: Yingying Zhao The Hong Kong Polytechnic University
15:30-15:45	Coffee Break		
15:45-17:15	R9: Big data analysis and cloud computing	R10: Intelligent and cooperative security in IoT and industrial systems	Poster Session
	Chair: Danish Javeed Dalian Maritime University	Chair: Baofeng Yu Northeastern University	Chair: Chuan Sun Chongqing Normal University
09:00-11:00	Academic Exchange and Visit, Northeastern University		
14:00-15:30	Semantic-Native Communication and Networking Forum (Private Session) (1st Floor Meeting Room 7, Sheraton Hotel)		
15:30-17:00	Forum on Integrated Heterogeneous Computing Power and Green Electrical Computing Network Collaboration (1st Floor Meeting Room 7, Sheraton Hotel)		
	Day 4 -- 24 th August, 2026		
09:00-11:00	Organizing Committee Meeting		

主旨报告 1 KEYNOTE SPEECH



Title: EIOT: Embodied Intelligence of Things

Professor Yunhao Liu

Member of the Chinese Academy of Sciences, IEEE/ACM Fellow

Tsinghua University, China

Biography:

Yunhao Liu, ACM Fellow, IEEE Fellow, Chair Professor at Tsinghua University. Yunhao received his B.E. degree in the Department of Automation at Tsinghua University, and an M.S. and a Ph.D. degree in Computer Science and Engineering at Michigan State University. Yunhao received China National Natural Science Award, ACM Presidential Award, CCF Wang Xuan Award, CCF Natural Science Award, CIE Natural Science Award as well as many best paper awards including ACM MobiCom best paper award, ACM SenSys Best Paper Award, and SIGCOMM Best Student Paper Award. He also received ACM SenSys 2023 Test of Time Award and IEEE PerCom 2026 Test of Time Award.



主旨报告 2

KEYNOTE SPEECH



Title: Intelligent Network Management for 6G
Professor Weihua Zhuang, Fellow of the Royal Society of Canada, IEEE Fellow
University of Waterloo, Canada

Abstract:

The 6G networks are expected to support a wide range of diverse use cases and applications, along with a significant increase in user data traffic. Artificial intelligence (AI) will be deeply embedded in the design and operation of the networks. Specifically, 6G will transition from an information-centric architecture, which connects people and devices, to intelligence-driven architectures that facilitate seamless data sharing, processing, and mining across devices, the edge, and the cloud within the network. This presentation will examine various aspects of integrating AI into network architecture and operations for intelligent network management and service provisioning. We will introduce a holistic network virtualization architecture designed to support AI functionalities and deliver customized services. Additionally, we will explore meta-learning to address non-stationary system dynamics in network management, with cooperative perception among nearby connected and autonomous vehicles as an application example. We will conclude by discussing the challenges and opportunities associated with network management automation, harnessing the advancements in AI technology.

Biography:

Weihua Zhuang is a University Professor and a University Research Chair in Electrical and Computer Engineering at University of Waterloo, Canada. Her research focuses on network architecture, algorithms and protocols, and service provisioning in future communication systems. She was the Editor-in-Chief of the IEEE Transactions on Vehicular Technology from 2007 to 2013, General Co-Chair of 2021 IEEE/CIC International Conference on Communications in China (ICCC), Technical Program Chair/-Co-Chair of 2017/2016 IEEE VTC Fall, and Technical Program Symposia Chair of 2011 IEEE Globecom. She served as the President of the IEEE Vehicular Technology Society in 2023-2024. Dr. Zhuang is a Fellow of the IEEE, Royal Society of Canada, Canadian Academy of Engineering, and Engineering Institute of Canada.

主旨报告 3
KEYNOTE SPEECH

Title: Key Technologies of AI-based Communications towards 6G
Professor Nei Kato, Fellow of the Engineering Academy of Japan, IEEE Fellow
Tohoku University, Japan

Abstract:

In both academia and industry, the exploration of 6G—a further advanced cellular communication technology—has already begun. As our society becomes increasingly digitalized, hyper-connected, and globally data-driven, future services are anticipated to rely heavily on virtually instantaneous, unlimited wireless connectivity. This presentation will outline the key drivers, challenges, and essential research topics associated with 6G. In particular, I will provide an overview of the cutting-edge technologies such as SIGIN, IRS, DT, MEC and WiGig, spanning aspects from physical/networking layers to new use cases and service enablers.

Biography:

Nei Kato is a Distinguished Professor with Graduate School of Information Sciences, Tohoku University, Japan. He served as the Dean of the Graduate School from 2021 to 2025. His research areas include computer networking, wireless mobile communications, satellite communications, ad hoc & sensor & mesh networks, UAV networks, AI, IoT, and Big Data. He is the Vice President for publication, IEEE Communications Society. He served as the Editor-in-Chief of IEEE Internet of Things Journal, IEEE Network, IEEE Transactions on Vehicular Technology, and the Vice President for Member and Global Activities, IEEE Communications Society. He is a Clarivate Analytics Highly Cited Researcher, a Fellow of the Engineering Academy of Japan, a Fellow of IEEE, and a Fellow of IEICE.



主旨报告 4

KEYNOTE SPEECH



Title: Toward Ambient Intelligence in IoT-Edge Systems

**Professor Rajiv Ranjan, Fellow of the Academia Europaea, IEEE Fellow
Newcastle University, United Kingdom**

Abstract:

As Internet of Things (IoT) devices continue to permeate our environments, they generate immense streams of real-world data that have the potential to transform how we deliver critical services—from healthcare and agriculture to transportation, smart grids, and disaster response. At the same time, advances in Artificial Intelligence, particularly Distributed Learning and Deep Learning, are unlocking new possibilities in areas like medical diagnostics, urban intelligence, and predictive analytics by learning from these rich, heterogeneous datasets.

However, a fundamental barrier persists: most deep learning models demand massive computational resources and centralized access to data—requirements typically fulfilled by cloud data centres. This centralized model often introduces latency, bandwidth constraints, and privacy challenges that are incompatible with real-time, context-aware decision-making at the edge.

In response, emerging paradigms like Osmotic Computing propose a more dynamic and adaptive distribution of intelligence—allowing computation to seamlessly flow between cloud, edge, and mobile edge environments. Yet, current approaches fall short in describing how to effectively orchestrate and scale distributed deep learning models across this complex continuum.

This keynote presents a vision for Osmotic Meta-Learning—a new class of resource- and data-aware learning algorithms designed to operate across globally distributed, heterogeneous environments. We will explore the following:

1. The foundational concepts behind Osmotic Computing and its relevance to the future of ambient intelligence.
2. Key research and programming challenges in building and coordinating distributed learning workflows that adapt to resource variability and data locality.
3. A novel approach for training distributed deep learning models on thousands of mid-scale IoT and edge devices worldwide—circumventing the need for traditional GPU-heavy cloud infrastructures.
4. Initial results from our deployment on the UK's largest IoT testbed—the Urban Observatory (<https://newcastle.urbanobservatory.ac.uk/>)—which offers a real-world validation environment for scalable, osmotic AI systems.

This talk envisions a shift from siloed AI systems to fluid, collaborative, and context-aware intelligence, capable of learning from—and acting upon—the edge of everything.

Biography:

Professor Rajiv Ranjan is an Australian-British computer scientist, of Indian origin, known for his research in Distributed Systems (Cloud Computing, Big Data, and the Internet of Things). He is University Chair Professor for the Internet of Things research in the School of Computing of Newcastle University, United Kingdom. He is an internationally established scientist in the area of Distributed Systems (having published about 400 scientific papers). He is a fellow of IEEE (2024), Academia Europaea (2022) and the Asia-Pacific Artificial Intelligence Association (2023). He is also the Founding Director of the International Centre (UK-Australia) on the EV Security and National Edge Artificial Intelligence Hub, both funded by EPSRC. He has secured more than \$350 Million CNY (£35 Million+ GBP) in the form of competitive research grants from both public and private agencies. He is an innovator with strong and sustained academic and industrial impact and a globally recognized R&D leader with a proven track record. He serves on the editorial boards of top quality international journals including IEEE Transactions on Computers (2014-2016), IEEE Transactions on Cloud Computing, ACM Transactions on the Internet of Things, The Computer (Oxford University), and The Computing (Springer) and Future Generation Computer Systems. He led the Blue Skies section (department, 2014-2019) of IEEE Cloud Computing, where his principal role was to identify and write about the most important, cutting-edge research issues at the intersection of multiple, inter-dependent research disciplines within distributed systems research area including Internet of Things, Big Data Analytics, Cloud Computing, and Edge Computing. He is one of the highly cited authors in computer science and software engineering worldwide (h-index=92+, g-index=400+, and 42000+ google scholar citations, h-index=67+ and 21000+ Scopus citations, and h-index=52+ and 12000+ Web of Science citations).



主旨报告 5
KEYNOTE SPEECH

Title: On the new Cloud Architectures for AI Computing

Professor Minyi Guo, IEEE Fellow, CCF Fellow

Shanghai Jiao Tong University, China

Biography:

Dr. Minyi Guo is the Zhiyuan Chair Professor of Shanghai Jiao Tong University. His present research interests include parallel/distributed computing, compiler optimizations, big data and cloud computing. He has more than 700 publications in major journals and international conferences in these areas. He received 10 best/highlight paper awards from international conferences including ISCA2024 and ISCA2026. Dr. Guo also got the national science and technology achievement award in 2019. He was Editor-in-Chief of IEEE Transactions on Sustainable Computing and now is the Transactions Operation Chair of IEEE Computer Society. He won 2023 IEEE Edward J. McCluskey Technical Achievement Award for his contributions to the design and realization of resource-efficient cloud computing. He is Fellow of IEEE and CCF.



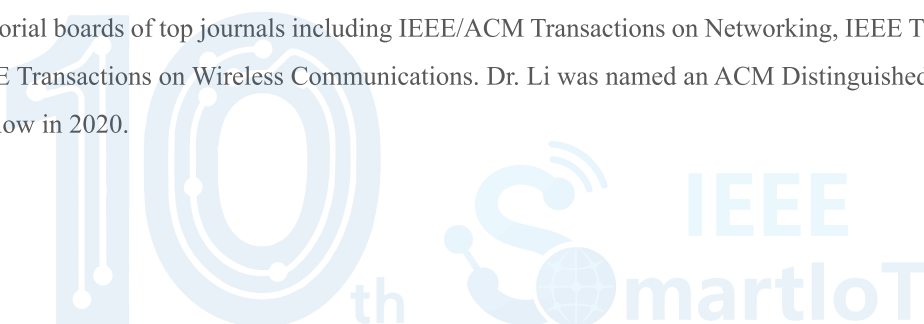
主旨报告 6
KEYNOTE SPEECH**Title: Low-Altitude Internet of Things****Professor Mo Li, IEEE Fellow****Hong Kong University of Science and Technology, China****Abstract:**

This talk will introduce the state-of-the-art technologies and future trends of the low-altitude economy, with an in-depth analysis of bottlenecks and core challenges current low-altitude communication networking technologies face. The talk will elaborate on our practical explorations to extend IoT systems into the low-altitude airspace, and present our research on building low-altitude communication infrastructure via low-power wide-area networking (LPWAN) technologies to empower various low-altitude systems and applications.

Biography:

Dr. Mo Li is a Professor at the Hong Kong University of Science and Technology. His research interests lie in wireless sensing and networking systems, mobile computing and IoT, as well as low-altitude economy. His research led to major impact and has been recognized with highly regarded research awards including ACM SIGMOBILE Test-of-Time Award (2026), SenSys Test-of-Time Award (2022), National Natural Science Award (2011), and numerous best paper awards in major venues including ACM MobiCom and SenSys. He currently serves the Chair of ACM SIGMOBILE and Editor-in-Chief of ACM Transactions on Internet of Things.

He served on the editorial boards of top journals including IEEE/ACM Transactions on Networking, IEEE Transactions on Mobile Computing, and IEEE Transactions on Wireless Communications. Dr. Li was named an ACM Distinguished Member in 2019 and elevated to IEEE Fellow in 2020.



Full Program 2026

Day 3 - August 23rd, 2026 (Sunday) - Meeting Room 4

TIME	TALKS	CHAIR
R1: IoT sensing, localization and network optimization		Chair: Bo Cheng Northeastern University
09:00-10:30 August 23	UGAS: Epistemic Uncertainty-Guided Adaptive Sampling for Gas Source Localization in Hybrid Sensor Networks Mingkun Guo, Jiuwu Ma, Zhiqiao Gao and Teng Ma	
	A Motif-Driven Topology Optimization Strategy for Low-Cost and Robust Computing Power Networks Kun Wang, Shuang Liu, Ruyi Ma, Jinshan Yuan and Tie Qiu	
	A UIoT Network Deployment Algorithm via Degree-Constrained and Multi-Dimensional Link Utility Assessment Xiaoyun Guang, Jiaqi Shen, Mingyue Li, Zhao Zhao and Ruizhong Du	
	Knowledge-Guided Relational Reasoning for Robust Network Topology Optimization Weijie Chen, Songwei Zhang, Bingxian Lu, Mehdi Hosseinzadeh, Fa Zhu, Hai Zhao and Tie Qiu	
	A Communication-Coverage-Aware AUV Data Collection Framework for Internet of Underwater Things Wenwei Li, Zhao Zhao, Jiuxing Zhang, Xiaoyun Guang and Sheng Lin	
10:30-10:45 August 23	Coffee Break	
R4: Artificial Intelligence, machine learning and evolutionary computing		Chair: Yifei Jia Northeastern University
10:45-12:15 August 23	An Adaptive Routing Network Based on Multimodal Fusion for Timestamp-Supervised Temporal Action Segmentation Shuyi He, Yipeng Guo, Jinnan Kou, Jingyi Kang, Shuhan Tao and Lin Feng	
	TPA-Seq2Seq: Tri-Prior Aligned Sequence-to-Sequence Learning for Continuous Sign Language Recognition Yahan Yang, Rui Wang, Xiaofan Li, Xiaoqiang Zhu and Yang Luo	

Day 3 - August 23rd, 2026 (Sunday) - Meeting Room 4

TIME	TALKS	CHAIR
10:45-12:15 August 23	A Bimodal Predictive Framework for Early Stroke Detection in Synthetic EHRs Jingyao Sun and Ming Li	
	Mutual Cross-Attention-Guided ECG-Report Alignment for ECG Representation Learning Shuai Wang and Wei Wang	
	VQRC: Variational Quantum Residual Compensation for Deep Neural Network Compression Zhenghao Jiang, Ning Chen, Xiaohan Yuan and Chuan Sun	
R6: Smart cities, intelligent transportation and internet of vehicles		Chair: Kaitian Zheng Xidian University
14:00-15:30 August 23	RO-VLMap: Real-Time Occupancy-Aware Visual Language Mapping for Robust Robot Navigation Yuan Liu, Chuangye Hu and Nan Ding	
	Deep Learning-Based Lightweight In-Cabin Multi-Person Heart Rate Monitoring Using 60 GHz FMCW Radar Ziye Liu, Shuqiang Wang, Xiaoguang Guo, Yanan Liang, Yingsheng Huang and Chen Chen	
	DeepSC-Empowered Multi-UAV Cooperative Exploration: A Tokenized Approach Yihang Huang, Zhujun Lan, Li Zhou, Xiaojie Wang and Zhaolong Ning	
	Task-Adaptive Morphology Design for Modular Robotic Systems in Dynamic Environments Ximing Liu, Lei Wu, Bin Guo, Yasan Ding and Zhiwen Yu	
	Multiplicative Multimodal Takeover Feasibility Index for Driver Control Resumption in SAE Level-3 Automated Driving Xiaohan Zhang	
15:30-15:45 August 23	Coffee Break	

Day 3 - August 23rd, 2026 (Sunday) - Meeting Room 4

TIME	TALKS	CHAIR
	R9: Big data analysis and Cloud computing	Chair: Danish Javeed Dalian Maritime University
15:45-17:15 August 23	WiLMT: LLM-Native Symbolic Representation Learning for WiFi-based Human Sensing Yanan Su, Jiancheng Chi, Zhiyi Zhou, Xinxin Lu, Qihang He, Lei Wang and Tutomu Murase	
	AMSP-Affirm: Adaptive Multi-Scale Patching for Resource Load Forecasting in Data Centers Gang Zhao, Tengyu Gai, Yubo Dong, Xiaodan Zhang and Xin Liu	
	Scheduling for Green Computility via LLM-Guided Deep Reinforcement Learning Tao Yin, Cong Wang, Ziyu Niu, Tianyi Xu, Xiaodan Zhang and Ruyi Ma	
	Light-TAIDS: A Lightweight Temporal Attention-Based Intrusion Detection System with Explainable Time-Aware Learning Shifa Shoukat, Tianhan Gao, Danish Javeed and Muhammad Adil	
	Reproducible and Scalable Parameter Optimization for Energy-Efficient IoT-NDN Networks using Deep Reinforcement Learning Mohamed Ahmed Mohamed Hail, Yannick Kreth and Bennet Gerlach	

Day 3 - August 23rd, 2026 (Sunday) - Meeting Room 5

TIME	TALKS	CHAIR
	R2: Security and privacy for smart IoT or CPS	Chair: Shuo Li Tianjin University
09:00-10:30 August 23	Risk-Controlled Lightweight IoT Intrusion Detection via SHAP-Guided Feature Pruning and Conformal Prediction Beigeng Zhao and Yufei Zhan	
	Addressing Cross-Dataset Data-Drift in IoT Intrusion Detection via Replay-Guided Adaptation with Source Retention Bipraneel Roy, Honn Cheung and Chun Ruan	
	MicroFed-AD: A Microcontroller-Based Federated Edge Intelligence Framework for Low-Latency Environmental Anomaly Detection Izhar Oswaldo Escudero Ornelas, Aland Yarden Escudero Ornelas, Zinuo Liu, Yuxuan Guo and Netzahualcoyotl Hernandez-Cruz	

Day 3 - August 23rd, 2026 (Sunday) - Meeting Room 5

TIME	TALKS	CHAIR
09:00-10:30 August 23	A Multi-Scale Time-Series Anomaly Detection Approach for Modeling the Time-Lagged Effects of Exogenous Variables Xin Liu, Yuanzhao Shang, Weisheng Luo, Gang Zhao and Tengyu Gai	
	Agent-Based Simulation of HotStuff Algorithm Family Yingying Deng, Paul Danielse and Zhiming Zhao	
10:30-10:45 August 23	Coffee Break	
R5: Adversarial game theory and security decision-making for IoT/CPS		Chair: Ziyu Niu Tianjin University
10:45-12:15 August 23	A Vector-Based Semantic Mapping and Dynamic Risk Evolution Framework for Heterogeneous IoT Security Labels Runpeng Lu, Yang Liu and Bin Xie	
	Robust Adversarial Malware Detection through Two-Phase Zone Perturbation in Windows-based Smart IoT Jun-Won Ho, Sungjin Ho and Hannah Ho	
	A Smart IoT/CPS-Based Autonomous Inspection and Visual Warning System for Building Fire Safety Hazards Derong Ning, Hong-Jin Hu, Xin Wang and Hong Qiu	
	FedMCP: Privacy-Preserving Federated Tool Indexing for Cross-Organizational MCP Deployments Sai Chaitanya Kumar Paidi and Tiru Chillapalli	
	Post-disaster network resource scheduling based on B5G and LEO satellite: applications, technologies, and open research problems YiWei Ma, PinHong Lin, Chenglong Shao and Kazuya Tsukamoto	
R7: Smart industrial and environmental IoT application		Chair: Jiancheng Chi Dalian University of Technology
14:00-15:30 August 23	Using Carbon Trading Mechanisms Enhanced by Smart IoT to Promote Industry Transformation and Urban Sustainable Development Ying Wang, Siu-Kei LAM, Heng Li and Lulu GONG	

Day 3 - August 23rd, 2026 (Sunday) - Meeting Room 5

TIME	TALKS	CHAIR
14:00-15:30 August 23	An FPGA-Based Real-Time Edge Vision Node for Industrial IoT Chengge Xia, Hao Wu, Yi Guo, Yaoming Zhuang and Chengdong Wu	
	A Joint Learning Framework for UIoT-Enabled Image Stitching Under Artificial Illumination Yating Zhuo, Ning Lv, Han Cai, Zihao Huang and Xin Yuan	
	Animal Re-Identification on Microcontrollers Yubo Chen, Di Zhao, Yun Sing Koh and Talia Xu	
	Scaffold-Initialized Crossing-Aware Multilevel Force-Directed Layout for Topology-Oriented Small and Medium Power-Grid Graphs Yue Huang, Chuhui Wu and Wei William Wang	
15:30-15:45 August 23	Coffee Break	
R10: Intelligent and cooperative security in IoT and industrial systems		Chair: Baofeng Yu Northeastern University
15:45-17:15 August 23	Multi-Pointer Co-Attention Network for Explainable Fake News Detection Ansong Liu and Jiangfeng Zeng	
	Diffusion-Enhanced Anomaly Perception for IoT-Enabled Fault Prediction in Multi-Center Power Dispatch Platforms Fei Peng, Zhen Huang, Kaiyuan Hou, Deming Xia and Duoqin Wang	
	ToolDriftBench: Detecting and Recovering from MCP Tool Index Staleness in Agentic Systems Sunil kumar Paidi and Venkata Ratna Kumar Bonagiri	
	CAL-IoT: A Causal Attention Framework for Robust and Explainable Intrusion Detection in IoT Networks Liming Sun, Jie Li, Mengting Li, Jinli Ma, Runze Sun, Haiyang Sun and Xingwei Wang	
	SegCal-AD: Segment-Aware Risk Calibration for Stable Alerting in Industrial IoT Lihua Yang, Weixu Wang and Xiaobo Zhou	

Day 3 - August 23rd, 2026 (Sunday) - Meeting Room 6

TIME	TALKS	CHAIR
R3: Edge computing, fog computing and the compute continuum		Chair: Izhar O. Escudero Ornelas Xi'an Jiaotong-Liverpool University
09:00-10:30 August 23	Semantic Communication-Enhanced UAV-Assisted Task Offloading Mechanism in Interference Environments Manman Song, Jinpeng Ren and Aiping Li	
	Risk-Regulated Contextual Resource Scheduling for Mixed-Criticality Smart IoT Edge Platforms Dexin Wang, Dong Ji and Yuxi Li	
	GPMS: Prediction-Driven GNN-Based Multi-Agent Scheduling for Multi-Cluster Edge Computing Fengbiao Zan, Tengyu Gai, Gang Zhao, Yubo Dong and Xin Liu	
	Deployment-Constrained Predictive Digital-Twin Instantiation for Smart IoT Edge-Cloud Infrastructures Jianyong Wang, Ziyu Niu, Xiaobo Zhou, Liangyu Han and Jie Liu	
	A Task-Aware Model Size and Precision Selection Framework for LLM Inference in Edge Computing Yuan Yuan, Bingxian Lu, Songwei Zhang and Siyu Liu	
10:30-10:45 August 23	Coffee Break	
ICUC: Advanced vision and techniques intelligent IoT system		Chair: Shuang Liu Tianjin University
10:45-12:15 August 23	Joint Traffic Prediction and Large Flow Detection Using a Lightweight LSTM-Attention Hybrid Model Xiangyuan Meng, Fengbiao Zan, Haidong Zhang, Qi Wang and Rong Zan	
	A Lightweight Green-Power-Aware Online Scheduling Heuristic for Dynamic IoT-Cloud Systems Xin Liu, Yubo Dong, Xiaodan Zhang and Ruyi Ma	

Day 3 - August 23rd, 2026 (Sunday) - Meeting Room 6

TIME	TALKS	CHAIR
10:45-12:15 August 23	From Deployment to Operation: A Reproducible IoT Testbed for Smart-Building HVAC with OTA and Observability Lucas Marques, Julio Estrella, Pedro Porto, Renan Soares, Felipe Tavoni and Vitor Vaz	
R8: Social networks, multimedia and mobile computing		Chair: Yingying Zhao The Hong Kong Polytechnic University
14:00-15:30 August 23	PPO-Based Resource Allocation for DT-Empowered FedRep in 6G IIoT Yiming Luo	
	SAC-DSGH: Differentiated Satellite-Ground Link Handover in LEO Networks via Soft Actor-Critic Kaitian Zheng, Chen Chen, Shuqiang Wang, Xiaoguang Guo and Ning Xu	
	Spatio-Temporal Network Traffic Prediction Based on an Adaptive Topology Gating Mechanism Zhipeng Wang, Wei Wei, Yang Yu, Nan Li and Li Zhou	
	Codebook-assisted Deep Multi-view Information Bottleneck for Semantic Transmission Meng Liu, Xingheng Wan, Zhikui Chen, Shuhao Zhang, Jingshu Wang and Zhangyang Tang	
	Empirical Range Modeling and Short-Range Radar Sensing Using IEEE802.15.4-Compliant IR-UWB Radar via Gaussian Mixture Models Ana Moragrega and Rodrigo Olivares	
15:30-15:45 August 23	Coffee Break	
Poster Session		Chair: Chuan Sun Chongqing Normal University
15:45-17:15 August 23	Time-Varying Propagation Graph Construction for Semantic Model Dissemination Xiujian Xu, Yifan Lyu, Guanghui Li and Zhehuan Zhao	
	Nonlinear Propagation Mechanisms of Semantic Models in Complex Topologies Xiujian Xu, Guanghui Li, Yifan Lyu and Zhehuan Zhao	

东北大学介绍

NORTHEASTERN UNIVERSITY



学校始建于1923年4月，是一所具有爱国主义光荣传统的大学。1928年8月至1937年1月，著名爱国将领张学良将军兼任校长。1931年“九·一八”事变后被迫流亡办学，先后辗转于北平、西安、开封、四川三台等地，在“一二·九”运动中，东大师生发挥了先锋队和主力军的重要作用。1949年3月，在东北大学工学院和理学院（部分）的基础上成立沈阳工学院。1950年8月，定名为东北工学院，1993年3月，复名为东北大学。1997年1月，原沈阳黄金学院并入东北大学。1998年9月划转为教育部直属高校，是国家首批“211工程”、“985工程”重点建设高校，2017年入选国家首轮世界一流大学建设高校，2022年入选国家第二轮“双一流”建设高校。

建校百年来，学校始终坚持与国家发展和民族复兴同向同行，以国家需要作为最高追求，在文化救国、工业报国、产业兴国、科技强国的征程上薪火相传、弦歌不辍，形成了“自强不息、知行合一”的校训精神和“实干、报国、创新、卓越”的文化品格。学校培养了包括70多名中外院士在内的40余万优秀毕业生，创建了国内高校第一个建筑系，先后研发出国内第一台模拟电子计算机、第一台国产CT、第一块超级钢以及钒钛磁铁矿冶炼新技术、钢铁工业节能理论和技术、控轧控冷技术、混合智能优化控制技术等一大批高水平科研成果，编写了中国第一部炼铁、铝电解等专业教材，兴办了第一个大学科学园，培育了中国第一家上市的软件公司，在技术创新、转移和产学研合作方面形成了鲜明的办学特色，为国家、为民族作出了积极贡献。

学校坐落在东北中心城市辽宁省沈阳市，在沈阳市建有南湖校区、浑南校区和沈河校区，在秦皇岛市设有东北大学秦皇岛分校，在佛山市设有佛山研究生创新学院。占地总面积264.6万平方米，建筑面积194.7万平方米。现有教职工4399人，其中专任教师2929人。有中国科学院和中国工程院院士5人，国家级领军人才项目入选者177人次、国家级青年人才项目入选者125人次、国家自然科学基金创新群体5个。



学校设有研究生院、29个学院（部），形成了以工为主、覆盖哲学、经济学、法学、教育学、文学、理学、工学、管理学、艺术学、交叉学科等学科门类的学科体系。学校是学位授权自主审核单位，有国家“双一流”建设学科2个、一级学科博士点27个、一级学科硕士点38个、博士专业学位类别6个、硕士专业学位类别16个、博士后流动站23个。学校全面贯彻党的教育方针，坚持立德树人根本任务，打造一流本科教育、卓越研究生教育，着力提高人才自主培养能力及人才培养质量。现有本科生、硕士研究生、博士研究生5万余人。设有82个本科专业，其中国家级特色专业15个、国家级一流本科专业建设点39个，1个专业入选教育部“强基计划”。现有国家级教学名师5人、国家级一流本科课程75门、国家级实验教学示范中心4个、国家级虚拟仿真实验教学中心2个、国家级大学生校外实践教育基地5个、国家级人才培养模式创新试验区3个、国家级虚拟教研室4个、全国示范性工程专业学位研究生联合培养基地2个。“十四五”以来，获国家级教学成果奖6项，全国教材建设奖（高等教育类）4项。获批建设教育部首批未来技术学院、首批特色化示范性软件学院、首批国家级创新创业学院、国家卓越工程师学院。在“2024年普通高校大学生竞赛院校指数”（本科）中，综合排名全国第2，第六轮“全国普通高校大学生机器人竞赛指数”获评A+。学生生源质量、毕业生就业率及就业质量保持较高水平。

学校始终胸怀“国之大者”，坚持“四个面向”，积极推动有组织科技创新，不断强化战略科技力量建设，更好服务国家高水平科技自立自强。学校建有100多个研究机构，其中国家级科技基地12个。“十四五”以来，获得国家科技进步一等奖、国家自然科学二等奖等国家级科技奖励7项，在《Science》《Nature》等顶级期刊发表了一批高水平科技论文，涵盖众多前沿领域重要成果。学校深化产教融合、科教融汇，入选首批教育部“高校科技成果转化试点示范基地”。

学校面向世界，开放办学，先后与42个国家和地区的268所大学、研究机构建立了友好合作关系，建有“高等学校学科创新引智基地”5个、国际合作联合实验室2个，在白俄罗斯创建全球首个科技孔子学院。有在校国际学生1200余人，设有中外合作办学机构1个、中外合作办学项目4个，获批国家留学基金委创新型人才国际合作培养项目13个。

学校始终以坚强有力的党建工作引领一流大学建设，两次获评“全国先进基层党组织”，获评第三届全国文明校园，入选教育强国建设三年行动计划立德树人机制综合改革试点高校、首批10所“全国党建工作示范高校”培育创建单位、首批10所“三全育人”综合改革试点高校、首批10所“一站式”学生社区综合管理模式建设试点高校和教育融媒体中心建设试点单位，获批教育部课程思政教学研究示范中心。

2023年9月15日，在东北大学建校100周年之际，习近平总书记给东北大学全体师生回信，充分肯定了学校百年来始终以育人兴邦为使命，为国家、为民族作出的积极贡献，对学校未来发展提出殷切希望，为学校办学治校指明了前进方向、提供了根本遵循。面向新百年新征程，东北大学将始终坚持以习近平新时代中国特色社会主义思想为指导，以习近平总书记重要回信精神为引领，锚定学校第十五次党代会确定的未来发展目标，继续坚持“教育英才”的办学宗旨，以“两个深度融入”为办学思路，为建成“在中国新型工业化进程中起引领作用的中国特色世界一流大学”而不懈努力。





Northeastern University (NEU) was founded on April 26, 1923. In its history of over 90 years, the university has formed its unique spirit: “Striving constantly for improvement and behaving in conformity with truth”. It has gained a number of high-level scientific research achievements, such as the first analog computer, the first domestically produced CT, the first piece of super steel, the new technology of smelting vanadium titanium magnetite, the energy-saving theory and technology of steel industry, the controlled rolling and controlled cooling technique, and the mixed intelligent optimization control technology. By establishing the first university science park in China, it has established a series of high-tech enterprises, such as the Neusoft Corporation and the Neunn Technology Inc., and formed its unique characteristics in the areas of technological innovation, technological transfer and industry-university cooperation.

The university is situated in Shenyang, the central city of the Northeastern China, and it also has a campus in Qinhuangdao City, Hebei Province. The university occupies a total area of 2,550,000 square meters, of which the architectural area amounts to 1,680,000 square meters. It has 4,538 faculty members, among whom 2,711 are full-time teachers. The university has 5 academicians of the Chinese Academy of Engineering, 4 foreign academicians, 18 scholars who are selected into “National High-level Personnel of Special Support Program”, 23 winners of “The National Science Fund for Distinguished Young Scholars”, 16 winners of the “Joint Research Fund for Overseas Chinese Scholars and Scholars in Hong Kong and Macao”, 102 who are selected into the “New Century Excellent Talents Support Project”, and 14 who are selected into “the National Outstanding Talents Project”. The university has 4 innovation groups of the National Natural Science Foundation and 3 innovation teams of the Ministry of Education. It has more than 100 research institutes including 3 national key laboratories, 4 national engineering (technology) research centers and 3 national engineering laboratories. Besides, it has 2 national collaborative innovation centers and 3 collaborative innovation centers of Liaoning province.

NEU has formed a multi-disciplinary system which covers philosophy, economics, law, pedagogy, literature, science, engineering, management, art and other disciplines. The university has 68 undergraduate programs. 179 programs are entitled to the conferment of Master’s degrees (with another 10 professional degree conferring entitlements) and 109 programs are entitled to the conferment of Doctoral degrees. In addition, it has 17 post-doctoral research stations. The university has 3 primary national key disciplines, 4 secondary national key disciplines and 1 national key (nurture) discipline. They cover 16 secondary disciplines in total.

NEU has a complete education system for undergraduates, graduates on master's and doctoral programs and post-doc-

toral researchers. Currently, the university has a total enrollment of more than 45,000 students, including 29,872 undergraduate students, 11,364 master's candidates, and 3,850 doctoral candidates. Adhering to the fundamental task of cultivating students with good morals, the university has gained fruitful achievements in cultivating top-notch innovative personnel and reforming teaching modes and methods. Since 2011, NEU has won 3 “National Teaching Achievements”, opened 11 “National Excellent Video Demonstration Courses”, 15 “National Excellent Resource Sharing and Construction Courses” and 6 “National Excellent Open Online Courses (MOOC)” and completed 18 “National Teaching Materials of the Twelfth Five-year Plan”. Besides, 5 doctoral dissertations have been nominated to the “National Excellent Doctoral Dissertations”. Till now, the students have won 497 international awards for contest of innovation, 1,967 national awards as well as 1,580 innovation and entrepreneurship awards of excellence, obtained 384 patents, and established 56 start-up companies. In addition to the quality of enrolling students, the employment rates and quality of graduates also remain at a higher level.

The university sticks to the scientific research direction of serving national strategies and regional development. It encourages academic researches and explorations, and promotes collaborative innovations. The basic researches have been steadily improved, and the university's competitiveness in technological innovations has been continuously enhanced. Since 2011, NEU has undertaken 6,387 scientific and technological projects of various types and has won 279 scientific and technological awards, including 14 national awards and 58 provincial and ministerial first prizes. It has also obtained 1,499 national patents, including 1,127 invention patents. In addition, 14,644 academic papers were included in the major science and technology literature retrieval systems of SCI, EI and ISTP. Up to now, it has hosted and organized 161 international and domestic academic conferences, of which 65 are international conferences.

NEU has a unique comparative advantage in technological innovation and transformation of scientific and technological achievements. It has explored an effective way to combine the policy, production, education, research and application so that it has achieved a sound interactive development of academic disciplines, personnel cultivation, scientific research and industry development. Focusing on the new IT technology, new materials, bio-science, and other edge-cutting fields, the university established Cloud Computing Science and Technology Industrial Park, New Materials Industrial Park, and Health Industrial Park. These have greatly promoted the development of the cloud computing and big data industry, improved the innovation and upgrading of equipment manufacturing industry in Shenyang, and laid a new foundation to serve the national economic construction and the revitalization of the old industrial bases of Northeastern China.

Opening up to the world, NEU has established long-term academic cooperation with 219 universities and institutions in 36 countries and regions. To bring in more overseas talents of various disciplines, the university has established 4 National Innovation Centers. Besides, more than 300 overseas well-known experts are invited to give lectures or participate in cooperative scientific research projects each year. In order to enhance students' international vision and academic capability, the university actively expands overseas exchange programs including state-funded study abroad, joint training, exchange study, short-term exchange visits and overseas internships. Every year, NEU sends more than 600 students for overseas study and exchange. NEU has been increasing the number of foreign students and improving the training quality. And in 2017, there are 1,500 international students from 97 countries and regions coming to NEU for academic exchange.

Sticking to the principle of “cultivating outstanding personnel” and the path of “innovation, distinctiveness and openness”, NEU will stride forward unremittingly to build itself into a world-class university with Chinese characteristics, playing a leading role in the new industrialization progress in China.



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