

Day 3 – August 23 rd , 2026 (Sunday) - Meeting Room 4	
Time	Talks
R1: IoT sensing, localization and network optimization Chair:	
09:00-10:30 August 23	UGAS: Epistemic Uncertainty-Guided Adaptive Sampling for Gas Source Localization in Hybrid Sensor Networks <i>Mingkun Guo, Teng Ma, Jiuwu Ma and Zhiqiao Gao</i>
	A Motif-Driven Topology Optimization Strategy for Low-Cost and Robust Computing Power Networks <i>Kun Wang, Shuang Liu, Ruyi Ma, Jinshan Yuan and Tie Qiu</i>
	A UIoT Network Deployment Algorithm via Degree-Constrained and Multi-Dimensional Link Utility Assessment <i>Xiaoyun Guang, Jiaqi Shen, Mingyue Li, Zhao Zhao and Ruizhong Du</i>
	Knowledge-Guided Relational Reasoning for Robust Network Topology Optimization <i>Weijie Chen, Songwei Zhang, Bingxian Lu, Mehdi Hosseinzadeh, Fa Zhu, Hai Zhao and Tie Qiu</i>
	A Communication-Coverage-Aware AUV Data Collection Framework for Internet of Underwater Things <i>Wenwei Li, Zhao Zhao, Jiuxing Zhang, Xiaoyun Guang and Sheng Lin</i>
10:30-10:45 August 23	Coffee Break
R4: Artificial Intelligence, machine learning and evolutionary computing Chair:	
10:45-12:15 August 23	An Adaptive Routing Network Based on Multimodal Fusion for Timestamp-Supervised Temporal Action Segmentation <i>Shuyi He, Yipeng Guo, Jinnan Kou, Jingyi Kang, Shuhan Tao and Lin Feng</i>
	TPA-Seq2Seq: Tri-Prior Aligned Sequence-to-Sequence Learning for Continuous Sign Language Recognition <i>Yahan Yang, Rui Wang, Xiaofan Li, Xiaoqiang Zhu and Yang Luo</i>
	A Bimodal Predictive Framework for Early Stroke Detection in Synthetic EHRs <i>Jingyao Sun and Ming Li</i>
	Mutual Cross-Attention–Guided ECG-Report Alignment for ECG Representation Learning <i>Shuai Wang and Wei Wang</i>
	VQRC: Variational Quantum Residual Compensation for Deep Neural Network Compression <i>Zhenghao Jiang, Ning Chen, Xiaohan Yuan and Chuan Sun</i>

Day 3 – August 23 rd , 2026 (Sunday) - Meeting Room 4	
Time	Talks
R6: Smart cities, intelligent transportation and internet of vehicles Chair:	
14:00-15:30 August 23	RO-VLMap: Real-Time Occupancy-Aware Visual Language Mapping for Robust Robot Navigation <i>Yuan Liu, Chuangye Hu and Nan Ding</i>
	Deep Learning-Based Lightweight In-Cabin Multi-Person Heart Rate Monitoring Using 60 GHz FMCW Radar <i>Ziye Liu</i>
	DeepSC-Empowered Multi-UAV Cooperative Exploration: A Tokenized Approach <i>Yihang Huang, Zhujun Lan, Li Zhou, Xiaojie Wang and Zhaolong Ning</i>
	Task-Adaptive Morphology Design for Modular Robotic Systems in Dynamic Environments <i>Ximing Liu, Lei Wu, Bin Guo, Yasan Ding and Zhiwen Yu</i>
	Multiplicative Multimodal Takeover Feasibility Index for Driver Control Resumption in SAE Level-3 Automated Driving <i>Xiaohan Zhang</i>
15:30-15:45 August 23	Coffee Break
R9: Big data analysis and Cloud computing Chair:	
15:45-17:15 August 23	WiLMT: LLM-Native Symbolic Representation Learning for WiFi-based Human Sensing <i>Yanan Su, Jiancheng Chi, Zhiyi Zhou, Xinxin Lu, Qihang He, Lei Wang and Tutomu Murase</i>
	AMSP-Affirm: Adaptive Multi-Scale Patching for Resource Load Forecasting in Data Centers <i>Gang Zhao, Tengyu Gai, Yubo Dong, Xiaodan Zhang and Xin Liu</i>
	Scheduling for Green Computility via LLM-Guided Deep Reinforcement Learning <i>Tao Yin, Cong Wang, Ziyu Niu, Tianyi Xu, Xiaodan Zhang and Ruyi Ma</i>
	Light-TAIDS: A Lightweight Temporal Attention-Based Intrusion Detection System with Explainable Time-Aware Learning <i>Shifa Shoukat, Tianhan Gao, Danish Javeed and Muhammad Adil</i>
	Reproducible and Scalable Parameter Optimization for Energy-Efficient IoT-NDN Networks using Deep Reinforcement Learning <i>Mohamed Ahmed M. Hail, Yannick Kreth and Bennet Gerlach</i>

Day 3 – August 23 rd , 2026 (Sunday) - Meeting Room 5	
Time	Talks
R2: Security and privacy for smart IoT or CPS Chair:	
09:00-10:30 August 23	Risk-Controlled Lightweight IoT Intrusion Detection via SHAP-Guided Feature Pruning and Conformal Prediction <i>Beigeng Zhao and Yufei Zhan</i>
	Addressing Data Drift in Cross-Dataset IoT Intrusion Detection via an Adaptive Replay-Based Framework <i>Bipraneel Roy, Hon Cheung and Chun Ruan</i>
	MicroFed-AD: A Microcontroller-Based Federated Edge Intelligence Framework for Low-Latency Environmental Anomaly Detection <i>Izhar Oswaldo Escudero Ornelas, Aland Yarden Escudero Ornelas, Zinuo Liu, Yuxuan Guo and Netzahualcoyotl Hernandez-Cruz</i>
	A Multi-Scale Time-Series Anomaly Detection Approach for Modeling the Time-Lagged Effects of Exogenous Variables <i>Xin Liu, Yuanzhao Shang, Weisheng Luo, Gang Zhao and Tengyu Gai</i>
	Agent-Based Simulation of the HotStuff Algorithm Family <i>Yingying Deng, Paul Danielse and Zhiming Zhao</i>
10:30-10:45 August 23	Coffee Break
R5: Adversarial game theory and security decision-making for IoT/CPS Chair:	
10:45-12:15 August 23	A Vector-Based Semantic Mapping and Dynamic Risk Evolution Framework for Heterogeneous IoT Security Labels <i>Runpeng Lu, Yang Liu and Bin Xie</i>
	Robust Adversarial Malware Detection through Two-Phase Zone Perturbation in Windows-based Smart IoT <i>Jun-Won Ho, Sungjin Ho and Hannah Ho</i>
	A Smart IoT/CPS-Based Autonomous Inspection and Visual Warning System for Building Fire Safety Hazards <i>Derong Ning, Hong-Jin Hu, Xin Wang and Hong Qiu</i>
	FedMCP: Privacy-Preserving Federated Tool Indexing for Cross-Organizational MCP Deployments <i>Sai Chaitanya Kumar Paidi</i>
	Post-disaster network resource scheduling based on B5G and LEO satellite: applications, technologies, and open research problems <i>Yiwei Ma, Pinhong Lin, Chenglong Shao and Kazuya Tsukamoto</i>

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Time	Talks
R7: Smart industrial and environmental IoT application Chair:	
14:00-15:30 August 23	Using Carbon Trading Mechanisms Enhanced by Smart IoT to Promote Industry Transformation and Urban Sustainable Development <i>Ying Wang, Siu-Kei Lam, Heng Li and Lulu Gong</i>
	An FPGA-Based Real-Time Edge Vision Node for Industrial IoT <i>Chengge Xia, Hao Wu, Yi Guo, Yaoming Zhuang and Chengdong Wu</i>
	A Joint Learning Framework for UIoT-Enabled Image Stitching Under Artificial Illumination <i>Yating Zhuo, Ning Lv, Han Cai, Zihao Huang and Xin Yuan</i>
	Animal Re-Identification on Microcontrollers <i>Rye Chen, Di Zhao, Yun Sing Koh and Talia Xu</i>
	Scaffold-Initialized Crossing-Aware Multilevel Force-Directed Layout for Topology-Oriented Small and Medium Power-Grid Graphs <i>Yue Huang, Chuhui Wu and Wei William Wang</i>
15:30-15:45 August 23	Coffee Break
R10: Intelligent and cooperative security in IoT and industrial systems Chair:	
15:45-17:15 August 23	Multi-Pointer Co-Attention Network for Explainable Fake News Detection <i>Ansong Liu and Jiangfeng Zeng</i>
	Diffusion-Enhanced Anomaly Perception for IoT-Enabled Fault Prediction in Multi-Center Power Dispatch Platforms <i>Zhen Huang, Fei Peng, Kaiyuan Hou, Deming Xia and Duoqin Wang</i>
	ToolDriftBench: Detecting and Recovering from MCP Tool Index Staleness in Agentic Systems <i>Sunil Kumar Paidi</i>
	CAL-IoT: A Causal Attention Framework for Robust and Explainable Intrusion Detection in IoT Networks <i>Liming Sun, Jie Li, Mengting Li, Jinli Ma, Runze Sun, Haiyang Sun and Xingwei Wang</i>
	SegCal-AD: Segment-Aware Risk Calibration for Stable Alerting in Industrial IoT <i>Lihua Yang, Weixu Wang and Xiaobo Zhou</i>

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

Time	Talks
R3: Edge computing, fog computing and the compute continuum Chair:	
09:00-10:30 August 23	Semantic Communication-Enhanced UAV-Assisted Task Offloading Mechanism in Interference Environments <i>Manman Song, Jinpeng Ren and Aiping Li</i>
	Risk-Aware Contextual Resource Allocation for Mixed-Criticality Smart IoT Edge Platforms <i>Dexin Wang, Dong Ji and Yuxi Li</i>
	GPMS: Prediction-Driven GNN-Based Multi-Agent Scheduling for Multi-Cluster Edge Computing <i>Fengbiao Zan, Tengyu Gai, Gang Zhao, Yubo Dong and Xin Liu</i>
	Deployment-Constrained Predictive Digital-Twin Instantiation for Smart IoT Edge-Cloud Infrastructures <i>Jianyong Wang, Ziyu Niu, Xiaobo Zhou, Liangyu Han and Jie Liu</i>
	A Task-Aware Model Size and Precision Selection Framework for LLM Inference in Edge Computing <i>Yuan Yuan, Bingxian Lu, Songwei Zhang and Siyu Liu</i>
10:30-10:45 August 23	Coffee Break
ICUC: Advanced vision and techniques for intelligent IoT system Chair:	
10:45-12:15 August 23	Joint Traffic Prediction and Large Flow Detection Using a Lightweight LSTM-Attention Hybrid Model <i>Xiangyuan Meng, Fengbiao Zan, Haidong Zhang, Qi Wang and Rong Zan</i>
	A Lightweight Green-Power-Aware Online Scheduling Heuristic for Dynamic IoT-Cloud Systems <i>Xin Liu, Yubo Dong, Xiaodan Zhang and Ruyi Ma</i>
	From Deployment to Operation: A Reproducible IoT Testbed for Smart-Building HVAC with OTA and Observability <i>Lucas Marques, Julio Cezar Estrella, Pedro Teixeira, Renan Soares, Felipe Tavoni and Vitor Vaz</i>

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Time	Talks
R8: Social networks, multimedia and mobile computing Chair:	
14:00-15:30 August 23	PPO-Based Resource Allocation for DT-Empowered FedRep in 6G IIoT <i>Yiming Luo</i>
	SAC-DSGH: Differentiated Satellite-Ground Link Handover in LEO Networks via Soft Actor-Critic <i>Kaitian Zheng, Chen Chen, Shuqiang Wang, Xiaoguang Guo and Ning Xu</i>
	Spatio-Temporal Network Traffic Prediction Based on an Adaptive Topology Gating Mechanism <i>Zhipeng Wang</i>
	Codebook-assisted Deep Multi-view Information Bottleneck for Semantic Transmission <i>Meng Liu, Xingheng Wan, Zhikui Chen, Shuhao Zhang, Jingshu Wang and Zhangyang Tang</i>
	Empirical Range Modeling and Short-Range Radar Sensing using IEEE802.15.4-Compliant IR-UWB Radar via Gaussian Mixture Models <i>Ana Moragrega and Rodrigo Olivares</i>
15:30-15:45 August 23	Coffee Break
Poster Session Chair:	
15:45-17:15 August 23	Time-Varying Propagation Graph Construction for Semantic Model Dissemination <i>Xiujuan Xu</i>
	Nonlinear Propagation Mechanisms of Semantic Models in Complex Topologies <i>Xiujuan Xu</i>