AICompS 2025

The International Conference on Artificial Intelligence Computing and Systems



November 26 - 28, 2025 Fukuoka, Japan & Hybrid

Program

Date				Last updated:	Nov 10, 20: Session Chair
Nov 26	Time 13:00–16:00	Room A (Track A) Session Chair Room B (Track B) O Proposing / Registration			
_	14:30-15:00	Preparing / Registration			
_	45.00.40.00	Opening Remarks			(Kyushu Univ.
	15:30–18:30	15:0016:00: Poster Stage Presentation (3 min. each) 16:00-16:30: Break			Chansu Han (NICT) Kouichi Sakura (Kyushu Univ.
lov 27	10:00-11:20	16:3018:30: Presentation in front of the posters & Reception			(Kyusiiu Oiliv.
10V 27	10.00-11.20	S1. LLM Evaluation & Reliability Not Just Accuracy: Consistency and Reliability as Core Factors in LLM Evaluation MiniSketch-VQA: A Benchmark for Evaluating LLM-as-a-Judge in Sketch-based Visual Question Answering The Dual-Edged Sword of Instruction Tuning: An Empirical Study on Precision Gains and Catastrophic Failures Evaluating Emoji Sequence Generation in Small Language Models	Jihie Kim (Dongguk Univ.)	S2. Prompt Safety & Grounding Vague2Detect: Handling Ambiguous Prompts in Knowledge-Based Open-World Detection PRISM: Prompt Risk Scoring via Interpretable Semantic Mapping for NSFW Defense Strong Detection, Short Text: A Four-Class Framework for Human-Al Authorship Empowering LLM-based Malware Analysis with Synthetic Code	Tao Ban (NICT)
_	11:30-13:00				
	13:00~13:50	Keynote I "Hyperscale Bug Finding and Fixing: DAPRA AIxCC and Team Atlanta" Taesoo Kim, Professor, Georgia Tecl Team Atlanta placed 1st in the DARPA AI Cyber Challenge (AIxCC), earning a \$4M grand prize in the final round. In this talk, I will introduce the DARPA AIxCC competition and share our technical approaches that led to victory—specifically, how we augmented large language models (LLMs) with traditional software analysis techniques to automatically discover and repair security vulnerabilities in real-world, large-scale open-source projects.			Brent Kang (KAIST)
_	13:50~14:10 14:10–15:10				
	14.10-13.10	S3. Privacy in Federated / On-Device ML Mitigating Label Inference Attacks in Vertical Federated Split Learning through Training Control and Gradient Disturbance Data Reconstruction Attacks against Privacy Preserving Vertical Federated Learning ARS-F-LIDS: Accountable Anonymous Federated Learning Against Malicious Behavior	Akira Otsuka (IISEC), Tao Ban (NICT)	S4. Crypto, FHE & Secure Computation An Intra-ciphertext Optimization for Efficient Multi-device Bootstrapping for HE-DNNs Efficient Evaluation of Indicator Function with Fully Homomorphic Encryption for Privacy-Preserving Embedding Efficient Batch Verifications for KZG Commitments	Yang Li (UEC)
_	15:10~15:40 15:40–17:00		Coffee		
		S5. Medical & Multimodal AI Advancing Prehypertension Screening with Explainable AI and Generative Augmentation Multimodal Pain Intensity Assessment from Physiological Signals: Window Segmentation with Cross-Attention and Temporal Modeling Multi-Resolution Speckle Priors for Scale-Aware Digital Image Correlation Enhanced Carbon Emission Prediction in IoT using Optimized Rotation-Invariant Coordinate Convolutional Neural Network for Accurate Urban Environmental Monitoring	Jonghyun Choi (SNU)	S6. Blockchain Systems & Data Infrastructure Mitigating Data Poisoning Attack in On-Device Learning Anomaly Detectors via Peer Consensus Blockchain-Based Smart Contract Revocable Bidding Scheme for European Union Emissions Trading Scheme Performance Bottleneck Analysis and Technical Debt in a Non-Standard Hyperledger Fabric CLI Gateway Architecture Blockchain-Assisted Resource Scheduling for SB-SPS in V2X Networks Service-aware Resource Management in Cloud computing for HPC workload	Akira Otsuka (IISEC)
	18:00-21:00		Banquet @	Sanshiro	
lov 28	09:30-10:50	S7. Systems for Efficient AI & Real-Time	Tao Ban	S8. Applied AI for Civic & Public Safety • Spatial-Temporal Graph Neural Networks for Non-Emergency Reports:	Sooel Son
		Calypso: A Compiler-Runtime Framework for Configurable Kernel Support in CXL-PNM Grasle: Graph-level Scheduling Language and Framework for Deep Neural Network Design and Implementation of a Timing Monitoring System for Real-Time Assurance based on AUTOSAR Timing Protection Accelerating ONNX Runtime Inference Through Tiling and IO-Binding based Model Design	(NICT)	A Case Study Context-Aware Safety Report Classification via Large Language Models and Dynamic Knowledge Graphs HieraText: Unsupervised Multi-Label Hierarchical Text Classification through Adaptive Clustering Web-Search-Integrated RAG for Resource-Constrained Environments: A Small-Model Approach	(KAIST)
_	10:50-11:20	Support in CXL-PNM • Grasle: Graph-level Scheduling Language and Framework for Deep Neural Network • Design and Implementation of a Timing Monitoring System for Real-Time Assurance based on AUTOSAR Timing Protection • Accelerating ONNX Runtime Inference Through Tiling and IO-Binding		A Case Study Context-Aware Safety Report Classification via Large Language Models and Dynamic Knowledge Graphs HieraText: Unsupervised Multi-Label Hierarchical Text Classification through Adaptive Clustering Web-Search-Integrated RAG for Resource-Constrained Environments: A Small-Model Approach	
	11:20–12:20	Support in CXL-PNM • Grasle: Graph-level Scheduling Language and Framework for Deep Neural Network • Design and Implementation of a Timing Monitoring System for Real-Time Assurance based on AUTOSAR Timing Protection • Accelerating ONNX Runtime Inference Through Tiling and IO-Binding		A Case Study Context-Aware Safety Report Classification via Large Language Models and Dynamic Knowledge Graphs HieraText: Unsupervised Multi-Label Hierarchical Text Classification through Adaptive Clustering Web-Search-Integrated RAG for Resource-Constrained Environments: A Small-Model Approach	
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