

CISOSE 2026 Program

July 27-30, 2026 | Japan Standard Time (JST)

IEEE International Congress on Intelligent and Service-Oriented Systems Engineering

CO-LOCATED CONFERENCES		
JCC	IEEE JointCloud Conference 2026	OPEN
SOSE	IEEE International Conference on Service-Oriented System Engineering 2026	OPEN
BDS	IEEE International Conference on Big Data Service and Applications 2026	OPEN
IMC	IEEE International Conference on Intelligent Mobile Computing 2026	OPEN
DAPPS	IEEE International Conference on Decentralized Applications and Infrastructures 2026	OPEN
AITest	IEEE International Conference on Artificial Intelligence Testing 2026	OPEN
ITASC	IEEE International Conference on Intelligent Transportation and Smart Cities 2026	OPEN
FITYR	IEEE Future Technology for Young Researchers 2026	OPEN

PROGRAM AT A GLANCE

Monday, July 27, 2026

Daily schedule and detailed sessions | JST

PROGRAM AT A GLANCE

TIME	VENUE	ONLINE	PROGRAM
08:30-	2F		Registration
09:00-10:00	Hall	Join Zoom Meeting	Opening Session
10:00-10:30	2F		Coffee Break
10:30-11:15	Hall	Join Zoom Meeting	Keynote #1 Multimodal Embodied AI: Toward Intelligent General-Purpose Robots for Humanity Dr. Jianwei Zhang (University of Hamburg, Germany)
11:15-12:45	Seminar Room 1		【Invited】 BDS-1 Machine Intelligence and Applications Chair: Jerry Gao
11:15-12:45	Seminar Room 2		BDS S1: Retrieval-Augmented and Agentic LLM Systems Chair Wencen Wu
11:15-12:45	Seminar Room 4		AITest S1: Evaluating AI systems Chair Muhammad Mudassar Yamin
11:15-12:45	Seminar Room 5		IMC S1 Chair Somchart Fugkeaw
11:15-12:45	Conference Room 1		SOSE S1 Chair Jerry Gao
12:45-13:45	OASIS Restaurant		Lunch
13:45-15:15	Seminar Room 1		【Invited】 AITest-1 AI in Testing Chair: Haihua Chen
13:45-15:15	Seminar Room 2		BDS S2: Human-Centered and Educational AI Applications Chair Akinori Hidaka
13:45-15:15	Seminar Room 5		IMC S2 Chair Somchart Fugkeaw
13:45-15:15	Conference Room 1		SOSE S2 Chair Wook Kang
13:45-16:45	Conference Room 2	Join Zoom Meeting	Tutorial #1 Building and Verifying AI Systems with Agentic AI Format: Hands-On Tool Demo Presenters: • Chia-Kai Chang, National Central University, Taiwan • Kuei-Hao Li, National Tsing Hua University, Taiwan • Teng-Yok Lee, Mitsubishi Electric, Japan
13:45-15:15	Online A		BDS S9: Online Session Chair Katerina Potika
15:15-15:45	2F		Coffee Break
15:45-17:15	Seminar Room 1		【Invited】 IMC-1 Intelligent Mobile Computing and IoT Chair: Hong Zhu
15:45-17:15	Seminar Room 2		BDS S3: Scalable Data Systems, Telemetry and Stream Processing Chair Paolo Nesi
15:45-17:15	Seminar Room 4		AITest S2: AI for Software Quality Engineering Chair Nayab Shahzad
15:45-17:15	Conference Room 1		ITASC S1 : Chair Yinong Chen
17:30	Main Building		Group Photo
18:00	OASIS Restaurant		Welcome Reception
After Reception	Hall		CISOSE 2027+2028 Planning Meeting

PROGRAM AT A GLANCE

Tuesday, July 28, 2026

Daily schedule and detailed sessions | JST

PROGRAM AT A GLANCE

TIME	VENUE	ONLINE	PROGRAM
09:00-09:45	Hall	Join Zoom Meeting	Keynote #2 From Personal Big Data to Personalized Intelligence Prof. Jianhua Ma (Hosei University, Japan)
09:45-10:15	2F		Coffee Break
10:15-11:45	Seminar Room 1		【Invited】 SOSE-1 AI In Service-Oriented Computing Chair: Song Yu
10:15-11:45	Seminar Room 2		BDS S4: Optimization, Prediction and Applied Decision Analytics Chair Iraklis Varlamis
10:15-11:45	Seminar Room 3		DAPPS S1 : Identity, Privacy, and User Experience Chair Kaiwen Zhang
10:15-11:45	Seminar Room 4		AITest S3: LLMs for Software Engineering and Security Chair Tatsuhiko Tsuchiya
10:15-11:45	Seminar Room 5		FITYR S1: Emerging Intelligent Technologies and AI-Driven Applications Chair Xiaotian Xu
10:15-11:45	Conference Room 1		ITASC S2 : Chair Yinong Chen
11:45-12:45	OASIS Restaurant		Lunch
12:45-13:30	Hall	Join Zoom Meeting	Keynote #3 Functional Differentiation in Brains and Neural Networks Prof. Yutaka Yamaguti (Fukuoka Institute of Technology, Japan)
13:30-14:30	Building C 1F		Coffee Break
13:30-14:30	Building C 1F	Join Zoom Meeting	P1 Poster Session — BDS & DAPPS
13:30-16:30	Conference Room 2	Join Zoom Meeting	Tutorial #2 From Test Automation to Agentic Test Automation for Smart Systems Presenter: Jerry Zeyu Gao, San Jose State University, USA
14:30-16:00	Hall	Join Zoom Meeting	Panel: Agentic AI: An Emerging Paradigm of Computing? Panellists: Hong Zhu (moderator), Oxford Brookes University, Oxford, UK Hiroyuki Sato, National Institute of Informatics, Japan Jianhua Ma, Hosei University, Japan Tomas Cerny, University of Arizona, Tucson, USA Andrés Muñoz Ortega, University of Cádiz, Spain Antonio Alberti, University of Leeds, UK
14:30-16:00	Seminar Room 1		【Invited】 SOSE-2 AI in Service-Oriented Systems Chair: Guadalupe Ortiz
14:30-16:00	Seminar Room 2		BDS S5: Mobility, Edge AI, Vision and Smart Environments Chair William Andreopoulos
14:30-16:00	Seminar Room 3		DAPPS S2 : Governance, Consensus, and Blockchain Mechanisms Chair Md Tauseef Alam
14:30-16:00	Seminar Room 4		AITest S4: Test Prioritization and Test Process Improvement Chair Tatsuhiko Tsuchiya
14:30-16:00	Conference Room 1		ITASC S3 Chair: Yinong Chen
15:15-16:00	Online A		JCC keynote: World Model-Driven Embodied Intelligence Chair Professor Song Guo, Hong Kong University of Science and Technology
16:00-16:45	Online A	Join VooV Meeting ID: 853-319-230	JCC keynote: Automatic Optimization for Efficient LLM Systems Professor Bingsheng He, National University of Singapore
16:45-17:00	Online A		Coffee Break
17:00-17:45	Online A		JCC keynote: National HPC as a JointCloud Prof. Dr.-Ing. Michael Resch, University of Stuttgart / Germany
14:30-16:00	Online C		AITest S7 Online Session: Testing and Validation of AI Systems Chair Yuhan Zhou
16:30-17:30	α Building		Bus to Banquet Venue
17:45-18:15	LUIGANS Spa&Resort		Hakata Bay Cruise Trip
18:30-20:30	LUIGANS Spa&Resort		Banquet

Wednesday, July 29, 2026

Daily schedule and detailed sessions | JST

PROGRAM AT A GLANCE

TIME	VENUE	ONLINE	PROGRAM
09:00-09:45	Hall	Join Zoom Meeting	Keynote #4 Quantum Software Engineering: From Quantum Algorithms to Real Software Prof. Jianjun Zhao (Kyushu University, Japan)
09:45-10:15	2F		Coffee Break
10:15-11:45	Seminar Room 1		【Invited】 BDS-2 Evaluation of AI Performances Chair: I-Ling Yen
10:15-11:45	Seminar Room 2		BDS S6: SecAI track Chair Monowar Bhuyan
10:15-11:45	Seminar Room 3		DAPPS S3: Blockchain Applications and Trusted Records Chair Stephen Fan
10:15-11:45	Seminar Room 4		AITest S5: Robustness and Regression Verification Chair Ross Arnold
10:15-11:45	Conference Room 1		ITASC S4 Chair: Yinong Chen
09:00-11:00	Online A	Join VooV Meeting ID: 742-469-626	JCC TrackA S1 Chair:Kun Wang, LLM, AI Serving & Machine Learning
11:40-13:00	Online A		JCC TrackA S2 Chair:Xiaofeng Hou, LLM, AI Serving & Machine Learning
09:00-11:00	Online B	Join VooV Meeting ID: 547-529-099	JCC TrackB S1 Chair:Yang Feng, Distributed Systems, Blockchain & Security
11:40-13:00	Online B		JCC TrackB S2 Chair:Kefei Li, Distributed Systems, Blockchain & Security
09:00-11:00	Online C	Join VooV Meeting ID: 694-656-784	JCC TrackC S1 Chair:Yang Feng, Edge Computing, UAV, Federated Learning & AIOps
11:40-13:00	Online C		JCC TrackC S2 Chair:Kefei Li, Edge Computing, UAV, Federated Learning & AIOps
11:45-12:45	OASIS Restaurant		Lunch
12:45-13:30	Hall	Join Zoom Meeting	Keynote #5 New Economy Based on Advanced Air Mobility & Low Altitude Driven by the New tech 6G AI eVTOL Dr. Gordon Gu (Board Director, ADINNO Inc.)
13:30-15:00	Seminar Room 1		【Invited】 AITest-2 Agentic Test Automation Systems Chair: Zhiming Zhao
13:30-15:00	Seminar Room 2		BDS S7: Explainable and Semantic AI for Knowledge-Driven Prediction and Learning Chair William Andreopoulos
13:30-15:00	Seminar Room 3		DAPPS S4: Blockchain, AI, and Automated Computation Chair Zhuo Cai
13:30-16:30	Conference Room 2	Join Zoom Meeting	Tutorial #3 Foundations of Physical AI: Sensing, Calibration, Communication, and Data Validation Presenter: Winncy Du, San José State University, USA
15:00-15:30	2F		Coffee Break
15:00-17:50	Online D	Join VooV Meeting ID: 742-469-626	JCC TrackD Chair: Xin Liu, AI Services & Knowledge Engineering
15:00-17:50	Online E	Join VooV Meeting ID: 547-529-099	JCC TrackE Chair: Geyao Chen, Cloud & Edge, Network Security & Systems
15:30-17:00	Hall		【Invited】 JCC-1 Intelligent Environments and Ecosystems of Services Chair: Iraklis Varlamis
15:30-17:00	Seminar Room 1		【Invited】 SOSE-3 Service-Oriented Architectures Chair: Wencen Wu
15:30-17:00	Seminar Room 2		BDS S8: Robust and Privacy-Aware Machine Learning for Prediction, Detection, and Compression Chair Paolo Nesi
15:30-17:00	Seminar Room 3		DAPPS S5: Blockchain Infrastructure, Networks, and Interoperability Chair James J. Lee
15:30-17:00	Seminar Room 4		AITest S6: Domain-Specific AI Applications Chair Luciano Alessandro Ipsaro Palesi
17:30-18:00	Hall	Join Zoom Meeting	CISOSE2026 Paper Award Ceremony & Closing Session

Thursday, July 30, 2026

Daily schedule overview | JST

PROGRAM AT A GLANCE

TIME	VENUE	ONLINE	PROGRAM
09:00-10:30	Hall	Join Zoom Meeting	1.Prof. Jie Xu (University of Leeds, UK) Systems for AI Agents: Scaling, Performance, and Execution Support
			2. Prof. Wei-Tek Tsai (Arizona State University, USA) Software Engineering 3.0 (SE3) : A Foundational Change
10:30-10:45	2F		Coffee Break
10:45-13:00	Hall	Join Zoom Meeting	1. Mr. Daniel Vu (Founder, SotaTek Japan, Japan) Empowering Organizations with AI Agents: Practical Social Implementation in Business and Education
			2. Prof. Yangfan Liu (Oklahoma State University, USA) Integrating Artificial Intelligence into Physical Acoustics: Technical Overview and Future Horizons
			3. Prof. Jerry Zeyu Gao (San Jose State University, USA) Mobile AI Cloud - Intelligence and Platforms for Smart Autonomous Vehicles
13:00-13:30	2F		Coffee Break (Lunch)

[Invited]BDS-1

Machine Intelligence and Applications

DATE

Monday, July 27

TIME (JST)

11:15-12:45

VENUE

Seminar Room 1

CHAIR

Jerry Gao

ONLINE ACCESS

[JOIN ZOOM MEETING](#)

MEETING ID

835 7383 8829

PASSCODE

Invited26

INVITED TALKS

INV01

Searching for Creativity in Computing: Why Not Involve Ugliness

Xiaoting Chen, Hongji Yang

INV10

Effective Traffic Routing under Disastrous Events through Machine Learning

Eric Itemuagbor, Lin Li, Lijun Qian

BDS S1

Retrieval-Augmented and Agentic LLM Systems

DATE

Monday, July 27

TIME (JST)

11:15-12:45

VENUE

Seminar Room 2

CHAIR

Wencen Wu

ONLINE ACCESS[JOIN ZOOM MEETING](#)**MEETING ID**

899 8134 4906

PASSCODE

BDS2026

PAPERS**5535****Resume Bullet Point Enhancement: A Multi-Model Fine-Tuning Comparative Study**

Vedant Gupta, Sumedh Kale, Navaneeth Sai Nidadavolu, Navrati Saxena, Thomas Austin and William Andreopoulos

6841**Context Engineering for Local Retrieval-Augmented Generation: Perturbation Robustness, Budgeted Evaluation, and Semantic Assessment**

Rahul Reddy Gangapuram and William Andreopoulos

7227**OASA-KGQA: Ontology-Aware Semantic Agent for Knowledge Graph Question Answering**

Zahra Feredooni, Marco Fanfani, Gianni Pantaleo and Paolo Nesi

5221**Scheduling LLM Tool Calls as OS Processes: Empirical Characterization of Overhead and Topology-Dependent Performance in Agentic Pipelines**

Kushal Erramilli

AITest S1

Evaluating AI systems

DATE	TIME (JST)	VENUE	CHAIR
Monday, July 27	11:15-12:45	Seminar Room 4	Muhammad Mudassar Yamin

ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID	PASSCODE
	852 8871 3246	AITest2026

PAPERS

23	AutoQABench: A Three-Level UX Benchmark for Automated Evaluation of Open-Ended LLM Responses Tianyue Wang, Fei Yuan, Chiaju Miao, Muralidharan Seshadri Kaniyanoor and Kazuo Matsumoto
106	LLM-Based Automatic Metamorphic Test Case Generation for LLM Fairness Testing Francisca Isabella Manope, Adam Rafif Faqih, Daffa Hilmy Fadhlurrohman, Jati H. Husen and Rosa Reska Riskiana
88	Dual-Track Red Teaming and Evaluation for Traditional Chinese Localized LLMs Ren Wei Lu, Wan Ping Chen and Fang Yu
39	Do AI Agents Exhibit Greed or Empathy in Shared Resource Environments? Landy Rakotoarison and Fanamby Randriamahanintsoa

IMC S1

IMC S1

DATE

Monday, July 27

TIME (JST)

11:15-12:45

VENUE

Seminar Room 5

CHAIR

Somchart Fugkeaw

ONLINE ACCESS[JOIN ZOOM MEETING](#)**MEETING ID**

824 2976 7613

PASSCODE

IMC2026

PAPERS

33

MoRAL: Sensor-Grounded BEV Reasoning for Compact VLMs toward Edge-Oriented Autonomous Driving

Ambarish Govindarajulu Kalamurthi and Kaikai Liu

44

Feature-Space Alignment and Geometry-Aware Fine-Tuning for Progressive LiDAR–Camera Fusion in Vectorized Online HD Mapping

Manav Goel and Kaikai Liu

42

Wearable EEG and Stand-Alone VR for Mobile Neurorehabilitation: A Cortical Comparison of Real, Virtual, and Simulated Upper-Limb Training

Ahmad Achkar, Omar Achkar, George Zouridakis and Kyu In Lee

SOSE S1

SOSE S1

DATE

Monday, July 27

TIME (JST)

11:15-12:45

VENUE

Conference Room 1

CHAIR

Jerry Gao

PAPERS**3609****Demonstration Paper: Lightweight API-Driven Complex Event Processing for Microservice-Oriented Edge Microcontrollers**

Alfonso Garcia-de-Prado, Javier Tena, Adrian Garcia-Bermejo, Guadalupe Ortiz and Stephan Reiff-Marganiec.

1733**Automated Generation of Microservice Authorization Tests Using Large Language Models**

Shakthi Weerasinghe, Md Arfan Uddin, Deuslirio Junior, Mateus Ribeiro, Manoel Verissimo, Connor Wojtak, Tomas Cerny, Valdemar Neto, Arlindo Galvão and Amr S. Abdelfattah

8047**Explainable Service-Oriented Investigative Intelligence for Automated Digital Evidence Prioritization in Cyber-Financial Crime**

Wook Kang

[Invited]AITest-1

AI in Testing

DATE	TIME (JST)	VENUE	CHAIR
Monday, July 27	13:45-15:15	Seminar Room 1	Haihua Chen

ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID	PASSCODE
	835 7383 8829	Invited26

INVITED TALKS

INV16	A Survey on Intelligent Robot Testing and Automation Karthik Rengarajan, Siddharth Pokuri, and Jerry Gao
INV07	LongSumEval: Question-Answering Based Evaluation and Feedback-Driven Refinement for Long Document Summarization Huyen Nguyen, Haoxuan Zhang, Yang Zhang, Haihua Chen, Junhua Ding

BDS S2

Human-Centered and Educational AI Applications

DATE

Monday, July 27

TIME (JST)

13:45-15:15

VENUE

Seminar Room 2

CHAIR

Akinori Hidaka

ONLINE ACCESS[JOIN ZOOM MEETING](#)**MEETING ID**

899 8134 4906

PASSCODE

BDS2026

PAPERS**9414****SpartanAI: A Faculty- and Student-centric AI Agent for Elevating Course Design through LLM-Powered Quality Matters Review**

Pratik Korat, Darshan Arunbhai Patel, Magdalini Eirinaki, Wencen Wu, Yingjie Liu and Barbra Burch

1953**Standards-Aligned Ethical Gating and Decision Telemetry for LLM-Assisted Mobile Robot Navigation: A Simulation Study**

Preet Kamalnayan Pandit, Aryan Singh, Hiten Bharkat Kumar Galiya and Wencen Wu

305**InstructCoT Bridging Instruction Tuning and Chain-of-Thought Reasoning for Scalable Vision-Language Models**

Eunsung You

2032**Epistemic-Pedagogical RAG as a Service for Educational Multi-Agent Systems**

Alberto Matilla-Molina, Juan Manuel Dodero and Andrés Muñoz Ortega

IMC S2

IMC S2

DATE

Monday, July 27

TIME (JST)

13:45-15:15

VENUE

Seminar Room 5

CHAIR

Somchart Fugkeaw

ONLINE ACCESS[JOIN ZOOM MEETING](#)**MEETING ID**

824 2976 7613

PASSCODE

IMC2026

PAPERS

41

SBBZAP: Scalable Batch-Based ZKP Authentication Pipeline for Cloud-Edge Systems

Patipon Thepphanom, Kunut Vorravanpreecha, Pongpichan Aunhapat, Natchanon Noochcha and Somchart Fugkeaw

43

ESNIDSaaS : Enabling Efficient and Scalable Network Intrusion Detection System as a Service

Thanapat Wicharn, Supakorn Prayongyam, Tinpat Vittayaphanpracha, Chaiyapat Anantarasuchart and Somchart Fugkeaw

16

Anomaly Detection Using LSTM in 6G Open Radio Access Networks

Haesik Kim, Cheolhee Park, Kyungmin Park, Soohyung Kim and Jonghyun Kim

32

Lightweight Streaming LLMs: Attention Layer Pruning for Memory-Efficient Long-Sequence Inference

Ashley Irawan, Bernardo Flores and Kaikai Liu

SOSE S2

SOSE S2

DATE

Monday, July 27

TIME (JST)

13:45-15:15

VENUE

Conference Room 1

CHAIR

Wook Kang

PAPERS

5025

Performance and Security Tradeoffs in Microservices Communication: Evaluating Reactive and Virtual-Thread Architectures Under Security Enabled System

Kamal Azizov

6022

PathRAG: A Graph-Based Reasoning Approach for Enhancing Retrieval in Software User Manuals

Ly-Huynh Phan, Dat Nguyen Dinh and Vu Luu Huy

BDS S9 | Part 1 of 2

Online Session

DATE Monday, July 27	TIME (JST) 13:45-15:15	VENUE Online A	CHAIR Katerina Potika
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ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID 843 7781 7280	PASSCODE JCC12026

PAPERS

1935	Mood To Music: Enhancing Audible Enjoyment Brian Ngo, Kai Llorca and Kanika Sood
9156	Accelerating PayPal's Commerce Agent with Speculative Decoding: An Empirical Study on EAGLE3 with Fine-Tuned Nemotron Models Ally Qin, Jian Wan, Sarat Mudunuri and Srinivasan Manoharan
9452	SYNAPX: Explainable Anticancer Drug Synergy Prediction via SHAP Analysis Yazhini Kalaignan and Yepeng Ding
2450	Effectiveness of Student-Centered Fine-Tuning of Large Language Models for Mental Health Support Sarthak Musmade and Lu Liu

BDS S9 | Part 2 of 2

Online Session

DATE	TIME (JST)	VENUE	CHAIR
Monday, July 27	13:45-15:15	Online A	Katerina Potika

ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID	PASSCODE
	843 7781 7280	JCC12026

PAPERS

3866	Agentic Data Services: A Control-Plane Architecture for Adaptive Data Workflows
	Alexander Chernov

[Invited]IMC-1

Intelligent Mobile Computing and IoT

DATE	TIME (JST)	VENUE	CHAIR
Monday, July 27	15:45-17:15	Seminar Room 1	Hong Zhu

ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID 835 7383 8829	PASSCODE Invited26

INVITED TALKS

INV13	Verifiable Agent Orchestration with Transition Systems Yepeng Ding, Hiroyuki Sato
INV12	Enabling Lightweight IoT Authentication via Decentralized Identity on the IOTA Tangle Chandam Chinglensana Singh, Nazrul Hoque, Paul Townend, and Monowar Bhuyan

BDS S3

Scalable Data Systems, Telemetry and Stream Processing

DATE

Monday, July 27

TIME (JST)

15:45-17:15

VENUE

Seminar Room 2

CHAIR

Paolo Nesi

ONLINE ACCESS

[JOIN ZOOM MEETING](#)

MEETING ID

899 8134 4906

PASSCODE

BDS2026

PAPERS

1719

Scalable Production Telemetry Reconstruction for Behavioral Analytics in Big Data Services

Wai-Pui Wilbur Kwan and Yun-Cheng Tsai

8601

SemDedup-K: Real-Time Semantic Stream Deduplication in Apache Kafka Using Lightweight Sentence Embeddings

Hemanta Ghosh

8558

Smart Vision-Based Inventory System for Real-Time Sack Monitoring and Predictive Stock Optimization

Jennifer Pilante and Jesus Paguigan

AItest S2

AI for Software Quality Engineering

DATE

Monday, July 27

TIME (JST)

15:45-17:15

VENUE

Seminar Room 4

CHAIR

Nayab Shahzad

ONLINE ACCESS[JOIN ZOOM MEETING](#)**MEETING ID**

852 8871 3246

PASSCODE

AItest2026

PAPERS

71

Deterministic Behavioral Contract Testing for AI Features at the Browser Layer

Erik Trevino

22

Bridging the Interpretation Gap in Accessibility Testing: Empathetic and Legal-Aware Bug Report Generation via Large Language Models

Ryoya Koyama, Zhiyao Wang, Devi Karolita, Jialong Li and Kenji Tei

37

AI4SE for CI/CD: Explainable Code Smell Risk Analysis

João Domingues, Daniela Duarte, António Sousa and Nuno Pombo

99

A RAG approach for assisting testers in database query testing

Raquel Blanco, María José Suárez-Cabal, Javier Tuya and Claudio de la Riva Álvarez

ITASC S1

ITASC S1

DATE	TIME (JST)	VENUE	CHAIR
Monday, July 27	15:45-17:15	Conference Room 1	Yinong Chen

PAPERS

Keynote-1	Prospect for the development of high-speed railway information and control technology Prof. Xiaoqing Zeng
9	StructEval: A Systematic Evaluation Framework for Structural Awareness in Large Language Models Rui Wang and Yinong Chen
3	Artificial Intelligence and the KNN Algorithm: A Journey from Foundational Concepts to Practical Application Qipeng Xiong, Xiaoqing Zeng, Shiru Qu and Jingjing Guo

[Invited]SOSE-1

AI In Service-Oriented Computing

DATE Tuesday, July 28	TIME (JST) 10:15-11:45	VENUE Seminar Room 1	CHAIR Song Yu
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ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID 835 7383 8829	PASSCODE Invited26

INVITED TALKS

INV09	Incentives and Evidence in Learned Service Orchestration Syed Izhan Khilji, Alireza Furutanpey, Schahram Dustdar
INV19	Towards Edge AI Native Service Platforms: Rethinking Runtime, Deployment, and Migration Jiannong Cao, Zhiyuan Hu, Mingjin Zhang, Xiaoming Shen, and Hongbo Liu

BDS S4

Optimization, Prediction and Applied Decision Analytics

DATE Tuesday, July 28	TIME (JST) 10:15-11:45	VENUE Seminar Room 2	CHAIR Iraklis Varlamis
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ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID 899 8134 4906	PASSCODE BDS2026

PAPERS

4377	Fair Influence Maximization with Reverse Influence Sampling Boosted Multi-Objective Genetic Algorithm Akash Janardhan Srinivas, Petros Potikas, William Andreopoulos and Katerina Potika
5282	A Nationwide Longitudinal Survival Analysis of Retention among New Immigrant Language Teachers Dun-Cheng Chang, Shinyi Lin and Ming-Hsueh Tsai
1261	From Prediction to Action: A Predict-Validate-Act Framework for CVE Vulnerability Triage Christopher Beddies, Vincenzo Bonaiuto, Stefan Kubica, Bernd Heimer and Bernd Eylert
5129	Practical Quantum Portfolio Optimization under Discrete Lot Constraints with CVaR-Based Evaluation for the Taiwan Stock Market Yun-Ching Lu and Tzung-Her Chen

DAPPS S1

Identity, Privacy, and User Experience

DATE
Tuesday, July 28**TIME (JST)**
10:15-11:45**VENUE**
Seminar Room 3**CHAIR**
Kaiwen Zhang**ONLINE ACCESS****JOIN ZOOM MEETING****MEETING ID**
837 5137 1936**PASSCODE**
DAPPS26**PAPERS****14****did:crdt: Coordination-Free Decentralised Identifiers via Signed CRDTs**

Hugo O'Connor

47**ZK-SNARK Stealth Addresses: Hash-Commitment Ownership Proofs as an Alternative to ECDH-Based Address Derivation**

Kristián Košťál

48**“Why Can’t I Just Use a Username?” Understanding Why Users Struggle with Decentralized Messaging Applications**

Tithi Saha, Md Ishmam Tasin, Ahad Mahjabin Jannat, Md Sadek Ferdous, Md Masum and Farida Chowdhury

AITest S3

LLMs for Software Engineering and Security

DATE	TIME (JST)	VENUE	CHAIR
Tuesday, July 28	10:15-11:45	Seminar Room 4	Tatsuhiko Tsuchiya

ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID 852 8871 3246	PASSCODE AITest2026

PAPERS

98	A Dynamic Evaluation Approach to Repository-Level Code Generation Via LLM Fuze Kuang, Dongmei Liu, Mingzhe Zhao and Longyang Mi
103	LLM-Based Detection and Test Generation for Command Injection Vulnerabilities in Python Yuxuan Wang, Jingshu Chen and Qingyang Wang
54	Improving LLM-Based Unit Test Generation Through Root-Cause-Driven Prompt Design Mizuki Yamada, Masahiko Kato and Juichi Takahashi
26	VectorSec: A Web-Based AI Security Scanner for Systematic Evaluation of LLM Vulnerabilities Muhammad Mudassar Yamin

FITYR S1

Emerging Intelligent Technologies and AI-Driven Applications

DATE	TIME (JST)	VENUE	CHAIR
Tuesday, July 28	10:15-11:45	Seminar Room 5	Xiaotian Xu

ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID 988 5340 9084	PASSCODE FITYR26

PAPERS

12	Yaoling: A Large Language Model for the Rail Transit Industry Yaohua Liu
14	UAV Safety and Intelligence: A Comprehensive Review Meilin Zhu and Jerry Gao
6	Lightweight Topology Visualization for Thread Mesh Networks via Passive Measurement Mitsutoshi Maeo, Kazuma Yokoo, Yepeng Ding and Tohru Kondo
11	A Reproducible Pipeline for Sentence-Level Medical Text Information Extraction on CADEC Siheng Jiang and Taixi Chen

ITASC S2

ITASC S2

DATE

Tuesday, July 28

TIME (JST)

10:15-11:45

VENUE

Conference Room 1

CHAIR

Yinong Chen

ONLINE ACCESS[JOIN ZOOM MEETING](#)**MEETING ID**

829 9750 2190

PASSCODE

763716

PAPERS**Keynote-2****Research on the optimization of railway station operation with passenger flow management as the core**

Prof. Taku Fujiyama

20**Hidden-Context Continual Learning for Survival-Oriented Environmental Adaptation**

Qiushi Wang and Yinong Chen

15**Security-Conscious Scheduling of Bag-of-Tasks Applications Incorporating Approximate Execution in Hybrid Cloud Infrastructures**

Helen Karatza

P1 Poster Session | Part 1 of 4

BDS & DAPPS Poster Session | BDS Posters

DATE	TIME (JST)	VENUE	CHAIR
Tuesday, July 28	13:30-14:30	Building C 1F	Iraklis Varlamis, Stephen Fan

ZOOM LINK: <https://zoom.us/j/98853409084?pwd=OGE1vZiQkWftn2ePhL7l2wo9baT94m.1>

POSTERS

766

Degrading Trustworthiness in Cross-Domain Recommendation via Popularity Bias Poisoning

Yi-Tang Fang, Po-An Chen, Yung-Shan Hsu, Szu-Hao Huang and Chiao-Ting Chen

5711

Adaptive Battery Scheduling for Renewable-Powered Electric Vehicle Charging

Nicoy Morrison

4213

Comparing Traditional NLP and LLMs for Dementia Detection: Overdiagnosis and Prompt Effects in the Pitt Corpus

Donghyeon Kim and Eunyoung Kim

4927

Bio-imaging Analysis Systems using a FPGA Platform

Yujie Chen

P1 Poster Session | Part 2 of 4

BDS & DAPPS Poster Session | BDS Posters

DATE

Tuesday, July 28

TIME (JST)

13:30-14:30

VENUE

Building C 1F

CHAIR

Iraklis Varlamis, Stephen Fan

ZOOM LINK: <https://zoom.us/j/98853409084?pwd=OGE1vZiQkWftn2ePhL7I2wo9baT94m.1>**POSTERS****6968****Constructing Tactical Main-Purpose Proxy Labels from Observational Baseball Data via Selective and Hierarchical Labeling**

Yuto Kanoh and Takuichi Nishimura

7067**Large Language Models Agents as a Big Data Pipeline for Scalable Chemical Information**

Abdulelah Alshehri

9082**Coordinate-Aware Boundary Refinement for Camouflaged Object Detection**

Donghun Seok and Chulhee Lee

1132**Human Activity Recognition using Smart Glasses**

Sayma Akther

P1 Poster Session | Part 3 of 4

BDS & DAPPS Poster Session | BDS Posters

DATE	TIME (JST)	VENUE	CHAIR
Tuesday, July 28	13:30-14:30	Building C 1F	Iraklis Varlamis, Stephen Fan

ZOOM LINK: <https://zoom.us/j/98853409084?pwd=OGE1vZiQkWftn2ePhL7l2wo9baT94m.1>

POSTERS

4832

Generalizable Physical Therapy Exercise Classification from Wearable IMU Data Using LOSO Evaluation

Sayma Akther

9060

A Comprehensive Review of Radio Signal Classification Techniques

Arielle Shnayder, Manan Choksi and Mahima Agumbe Suresh

P1 Poster Session | Part 4 of 4

BDS & DAPPS Poster Session | DAPPS Posters

DATE	TIME (JST)	VENUE	CHAIR
Tuesday, July 28	13:30-14:30	Building C 1F	Iraklis Varlamis, Stephen Fan

ZOOM LINK: <https://zoom.us/j/98853409084?pwd=OGE1vZiQkWftn2ePhL7l2wo9baT94m.1>

POSTERS

16

Efficient Blockchain Peer-to-Peer Energy Trading based on Automated Market Makers

Mitchel Justinen and Caixiang Fan

34

GNN-Enhanced Decentralized Interbank Network Formation for Systemic Risk Assessment

Haoyu Zhang, Jing Fu and Frank Page

45

Stake-Based Consensus Mechanisms: Human Error and Compassion Debt

James J. Lee and Benjamin Yeo

[Invited]SOSE-2

AI in Service-Oriented Systems

DATE

Tuesday, July 28

TIME (JST)

14:30-16:00

VENUE

Seminar Room 1

CHAIR

Guadalupe Ortiz

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PASSCODE

Invited26

INVITED TALKS

INV11

PlatePlanner: A Service-Oriented Architecture for Hybrid Recipe Retrieval and Pantry-Aware Meal Planning

Sandilya Chimalamarri, Sai Ranga Reddy Nukala, Wencen Wu

BDS S5

Mobility, Edge AI, Vision and Smart Environments

DATE Tuesday, July 28	TIME (JST) 14:30-16:00	VENUE Seminar Room 2	CHAIR William Andreopoulos
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ONLINE ACCESS			
JOIN ZOOM MEETING		MEETING ID 899 8134 4906	PASSCODE BDS2026

PAPERS

2923	Enhanced Edge Travel Time Estimation Considering Vehicle-State and Relative-Speed Features Shuya Nakano, Sooksan Panichpapiboon and Elis Kulla
7897	Sustainable Face Recognition on Low-Power Devices with VQ-VAE Embeddings Christos Chronis, Georgios Th. Papadopoulos and Iraklis Varlamis
1967	Sensorless Knee-Wall Contact Detection from a Monocular Side-View Camera via LBP Texture Segmentation and RANSAC Line Fitting Shura Osako and Hiroyuki Fujioka
7951	Pedestrian Flow Design and Evaluation for Large-Scale Outdoor Events Using Location Data Hiroyuki Ishida, Yuma Taguchi, Yoshinao Ishii, Takashi Machida and Akira Yoshioka

DAPPS S2

Governance, Consensus, and Blockchain Mechanisms

DATE Tuesday, July 28	TIME (JST) 14:30-16:00	VENUE Seminar Room 3	CHAIR Md Tauseef Alam
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ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID 837 5137 1936	PASSCODE DAPPS26

PAPERS

15	CURVEDJURY: A Sybil-Resistant Weighted Jury Selection Framework for Blockchain Dispute Resolution Mohammad Amin Najafloo and Kaiwen Zhang
40	Proof of Election: A Formally-Verified Democratic Blockchain Protocol Zhuo Cai and Amir Kafshdar Goharshady
43	LockFee: Refundable Transaction Admission via Time-Locked Collateral Jonas Ballweg, Togzhan Barakbayeva, Zhuo Cai and Amir Kafshdar Goharshady

ITASC S3

ITASC S3

DATE

Tuesday, July 28

TIME (JST)

14:30-16:00

VENUE

Conference Room 1

CHAIR

Yinong Chen

PAPERS

4

Construction of an Operating Subsidy Calculation Model for F City Rail Transit Based on Incentive Regulation Theory

Jiang Xiantong; Weng Yanzhen; Liu Kaibang; Peng Weizhou

5

A Comparative Study on the Application of Public-Private Partnership Model in the Transportation Sector from the Perspective of Institutional Change—Data Analysis from China

Yanzhen Weng; Weizhou Peng; Xiantong Jiang

6

Automated Validation of Alternative Evacuation Routes – A Case Study on Citywide Evacuation for Kagoshima City

Andreas Keler; Masato Iguchi

8

A Jensen-Shannon Divergence Approach for Diagnosing Spatial Mismatch among Pedestrian Facility Supply, Activity, and Safety Risk

Tzuping Chiang; Chia-Hui Chen; Yin-Chun Hung; Ching-Ta Lin; Chih-Chung Chung

11

Application of Knowledge Distillation for Slope Stability Analysis under Special Environmental Conditions

Tzuping Chiang; Yushan Tien; Bo-Shuo Chen; Youyu Liou

AITest S4

Test Prioritization and Test Process Improvement

DATE

Tuesday, July 28

TIME (JST)

14:30-16:00

VENUE

Seminar Room 4

CHAIR

Tatsuhiko Tsuchiya

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MEETING ID

852 8871 3246

PASSCODE

AITest2026

PAPERS

78

Evaluating DL Test Adequacy Metrics: A Correlation Study with DeepCrime's Mutation Score

Tien Duc Nguyen, Gonzalo Oberreuter, Siegfried Steckenbiller, Patrick Tkalcic and Gordon Fraser

105

Evaluating the Efficacy and Diversity of DNN Test Input Prioritisation Techniques

Gianmarco De Vita, Nargiz Humbatova and Paolo Tonella

79

Formal Trajectory Analysis for Testing Agentic AI in Stateful Environments

Ahmed Twabi, Yepeng Ding and Tohru Kondo

2

TE-TCP-Net: Parallel Transformer-Encoders for Test Case Prioritization

Osama Saad, Mohamed Abdelkarim and Reem Eladawi

AITest S7 | Part 1 of 2

AITest S7 Online Session: Testing and Validation of AI Systems

DATE
Tuesday, July 28

TIME (JST)
14:30-16:00

VENUE
Online C

CHAIR
Yuhan Zhou

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966 0547 0906

PASSCODE
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PAPERS

94

A C-SSRS-Based Risk-Aware Evaluation Framework for Self-Harm Safety in LLMs

Lingling Zhang, Fen Zhao and Xin Yang

55

Direct Transfer Learning for Cross-Project Test Case Prioritization under Cold-Start Conditions

Michael Johnson and Khaled Sihoub

61

All Smoke, No Alarm: Oracle Signals in Agent-Authored Test Code

Dipayan Banik, Kowshik Chowdhury and Shazibul Islam Shamim

96

Bandit-Controlled Semi-Ensemble Learning for Accuracy-Energy Trade-off Under Real-time Edge Conditions

Lifeng Ni and Lixin Tao

AITest S7 | Part 2 of 2

AITest S7 Online Session: Testing and Validation of AI Systems

DATE

Tuesday, July 28

TIME (JST)

14:30-16:00

VENUE

Online C

CHAIR

Yuhan Zhou

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PAPERS

101

Conversational AI for Safety-Critical Virtual and Extended Reality: Intelligent Agents Across Health Informatics, Navigation, and Urban Sensing

Johannas Meela Katikala, Kanishk Sharma, Tharun Swaminathan Ravi Kumar and Sharad Sharma

[Invited]BDS-2

Evaluation of AI Performances

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	10:15-11:45	Seminar Room 1	I-Ling Yen

ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID	PASSCODE
	835 7383 8829	Invited26

INVITED TALKS

INV08	LLM-ReSum: A Framework for LLM Reflective Summarization through Self-Evaluation Huyen Nguyen, Haoxuan Zhang, Yang Zhang, Junhua Ding, Haihua Chen
INV18	Facial Affect Analysis for Service-Oriented Systems: Advances, Challenges, and Future Visions Spyridon Georgiou, Aggelos Psiris, Thomas Lagkas, Vasileios Argyriou, Panagiotis Sarigiannidis, Iraklis Varlamis, Georgios Th. Papadopoulos

BDS S6

SecAI track

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	10:15-11:45	Seminar Room 2	Monowar Bhuyan

ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID	PASSCODE
	899 8134 4906	BDS2026

PAPERS

3815	Maximum Mean Discrepancy for Concept Drift Detection in Malware Classification Models Christofer Washington Berruz Chungata, Martin Martin Jurecek, Katerina Potika and Mark Stamp
204	Selective Invariance Violations in Large Language Model Moral Judgment: A Geometric Framework for Behavioral Manipulation Detection Andrew Bond
7970	Ensemble Deep Learning for Robust Phishing Detection: A Multi-Layer Security Framework Jerryl Babu
7960	A Local Middleware for Privacy-Preserving LLM Inference via Reversible Entity Substitution Aditya Vishwakarma and Wencen Wu

DAPPS S3

Blockchain Applications and Trusted Records

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	10:15-11:45	Seminar Room 3	Stephen Fan

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JOIN ZOOM MEETING	MEETING ID 837 5137 1936	PASSCODE DAPPS26

PAPERS

18	Distributed Semantic-Aware Medical Image Reconstruction with Blockchain-Verified Latent Fingerprints Mohsin Rasheed and Abdullah Al-Mamun
20	Practical Experiment of the Volunteer Engagement Logging on Blockchain Sho Fukaya, Tetsuyasu Yamada and Takaaki Yanagihara
30	A Blockchain-Based DApp for Traceable and Tamper-Evident Mountain-Entry Reporting Takaaki Yanagihara, Sho Fukaya, Teruyuki Kikuchi and Tetsuyasu Yamada
16	Efficient Blockchain Peer-to-Peer Energy Trading based on Automated Market Makers Mitchel Justinen and Caixiang Fan

AITest S5

Robustness and Regression Verification

DATE

Wednesday, July 29

TIME (JST)

10:15-11:45

VENUE

Seminar Room 4

CHAIR

Ross Arnold

ONLINE ACCESS

[JOIN ZOOM MEETING](#)

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852 8871 3246

PASSCODE
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PAPERS

83

Robustness Verification of RNN with Abstraction Refinement

Li-Jen Lin and Chih-Duo Hong

87

Ontology-based Testing of Reinforcement Learning Applications

Nayab Shahzad and Franz Wotawa

104

Beyond Bypass: Measuring Vulnerability Regression in LLM-Generated Security Patches

Adiba Mahmud, Yasmeen Rawajfih and Ross Arnold

80

Behavioral Regression Testing for Continuously Updated Machine Learning Models

Vinil Pasupuleti, Srinivas Teja Songa, Nagesh Gulkotwar, Shyalendar Reddy Allala and Shrey Tyagi

ITASC S4

ITASC S4

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	10:15-11:45	Conference Room 1	Yinong Chen

PAPERS

12	Integrating Smartphone Barometric Sensors and Knowledge Distillation Techniques for Soil Pressure Analysis Tzuping Chiang; Wanyi Chen; Chengpeng Sun; Chingyin Wang
17	Human Error Mechanisms and Multi-Agent Collaborative Assurance Technology for Rail Transit in Non-ATP Scenarios Qipeng Xiong; Shiru Qu
18	Resilience-Oriented Optimal Dispatch Strategy for Decentralized Energy Management in Interconnected Multi-Microgrids within Smart Grid Cheng-I Chen; Jia-Xi Li; Jen-Chung Liao
19	Classification and Spatiotemporal Characteristics of Metro Stations Based on Passenger Flow Clustering: A Case Study of the Shanghai Metro Guangyue Nian, Minghui Lin, Jian Sun and Xiang Luo

[Invited]AITest-2

Agentic Test Automation Systems

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	13:30-15:00	Seminar Room 1	Zhiming Zhao

ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID	PASSCODE
	835 7383 8829	Invited26

INVITED TALKS

INV17	MASTEST: A LLM Empowered Multi-Agent System for Testing REST APIs Xiaoke Han, Hong Zhu
INV05	Multi-Agent Change Impact Analysis and Test Optimization for AI-Enabled Software Systems Nariman Mani, Amr S. Abdelfattah, Shakthi Weerasinghe, Xiaozhou Li, Tomas Cerny

BDS S7

Explainable and Semantic AI for Knowledge-Driven Prediction and Learning

DATE Wednesday, July 29	TIME (JST) 13:30-15:00	VENUE Seminar Room 2	CHAIR William Andreopoulos
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ONLINE ACCESS

JOIN ZOOM MEETING	MEETING ID 899 8134 4906	PASSCODE BDS2026
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PAPERS

9396	A Service-Oriented Modular Architecture for Domain-Adaptive Retrieval-Augmented Generation. Sruthi Satyavarapu, Mohammed Fahad and Pramod Gupta
3299	LLM Semantic-aware categorical feature engineering for Federated Learning systems: IoT heterogeneous metadata case study Enrico Collini, Luciano Alessandro Ipsaro Palesi, Paolo Nesi and Lapo Tinacci
2030	Design of a Distributed Semantic Analysis System for Scalable Processing of Heterogeneous Text Data Yen-Yu Chang, Meng-Che Tsai, Yu-Chen Chien, Ying-Zhu Chai and Chia-Kai Chang
7273	Effect of Inducing Point Selection Strategies on Digital Ink Compression via Sparse Gaussian Process Regression Yuumi Sakino and Hiroyuki Fujioka

DAPPS S4

Blockchain, AI, and Automated Computation

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	13:30-15:00	Seminar Room 3	Zhuo Cai

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JOIN ZOOM MEETING	MEETING ID 837 5137 1936	PASSCODE DAPPS26

PAPERS

32	DP-Shapley: Deterministic, Gas-Bounded Shapley Settlement for On-Chain Federated Learning Haseeb Saeed, Kaiwen Zhang and Michael Duchesne
46	When Tools Disagree: Agentic Adjudication and Repair of Smart Contract Vulnerabilities Md Tauseef Alam, Pankaj Kumar Paswan, Raju Halder and Abyayananda Maiti
55	IOChain: A Decentralised Framework for Neural Network Inference on Untrusted Nodes Eric Xin

[Invited]JCC-1

Intelligent Environments and Ecosystems of Services

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	15:30-17:00	Hall	Iraklis Varlamis

ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID 835 7383 8829	PASSCODE Invited26

INVITED TALKS

INV15	OmniDroneX: An LLM-Assisted Holistic Drone-as-a-Service Ecosystem I-Ling Yen, Akeem Mohammed Farokh Bastani, San-Yih Hwang
INV04	Cooperative Research Activities in a Cloud-Based Virtual Research Environment: From Notebooks to Workflows, Digital Twins, and AI Agents Zhiming Zhao, W. Daniel Kissling, Geerten M. Hengeveld, Ioannis N. Athanasiadis, Karline Soetaert, Andries Hof, Marcel Visser

[Invited]SOSE-3

Service-Oriented Architectures

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	15:30-17:00	Seminar Room 1	Wencen Wu

ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID 895 1039 1634	PASSCODE JCC22026

INVITED TALKS

INV14	From Context-Aware Collaborative IoT to Digital Twins: Architectural Foundations and Research Roadmap for Distributed Intelligent Systems and Systems of Systems Guadalupe Ortiz, Alfonso Garcia-de-Prado, Andrés Muñoz, Elena Navarro
INV03	Benchmarking Optimiser Choice and Privacy-Risk Dynamics in Non-IID Federated Learning Imowo J. Enang, Joffrey L. Leevy, Preston Billion-Polak, and Taghi M. Khoshgoftaar

BDS S8

Robust and Privacy-Aware Machine Learning for Prediction, Detection, and Compression

DATE

Wednesday, July 29

TIME (JST)

15:30-17:00

VENUE

Seminar Room 2

CHAIR

Paolo Nesi

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BDS2026

PAPERS

4107

Shift-Aware Operator Selection for Label-Free Test-Time Calibration in Cross-Domain Dataset

Sayma Akther

4615

Multi-Scale Alcohol Consumption Behavior Detection from Wearable AI

Sayma Akther and Nada Attar

DAPPS S5

Blockchain Infrastructure, Networks, and Interoperability

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	15:30-17:00	Seminar Room 3	James J. Lee

ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID	PASSCODE
	837 5137 1936	DAPPS26

PAPERS

49	PPBridge: A Zero-Knowledge Privacy-Preserving Cross-Chain Bridge for EVM Networks Kristián Košťál
36	An Analysis of Monero's Network Topology Justin Kirschner
34	GNN-Enhanced Decentralized Interbank Network Formation for Systemic Risk Assessment Haoyu Zhang, Jing Fu and Frank Page
45	Stake-Based Consensus Mechanisms: Human Error and Compassion Debt James J. Lee and Benjamin Yeo

AITest S6

Domain-Specific AI Applications (1)

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	15:30-17:00	Seminar Room 4	Luciano Alessandro Ipsaro Palesi

ONLINE ACCESS		
JOIN ZOOM MEETING	MEETING ID	PASSCODE
	852 8871 3246	AITest2026

PAPERS

89	Transformer-Based Temporal Action Localization of Fine-Grained Operations in Biological Experiment Videos and Analysis of Compositional Limitations Tang Phu Thien Nhan and Tomohiro Shibata
107	Improving Robustness of Semantic Segmentation for Autonomous Driving: A Case Study Minggu Wang, Zhiyong Zhou, Fuyuan Zhang, Jianjun Zhao and Vinh Truong Duy Truong
46	Connecting Uncertainty Quantification to Safety Engineering: Uncertainty Gate Framework for Safe ML Decision Making Mateus Molina, Alexander Günther and Peter Liggesmeyer
56	Passive Testing of AI-Enhanced Financial Systems via Protocol Traffic Analysis and Property-Based Validation Alena Bulda, Alexey Itkin, Daria Degtiarenko and Iosif Itkin

JCC TrackA S1 | Part 1 of 2

LLM, AI Serving & Machine Learning

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	9:00-11:00	Online A	Lin Gu

ONLINE ACCESS		
JOIN VooV MEETING	MEETING ID 742-469-626	PASSCODE JCC2026

PAPERS

9	Meta-learning based Interest Selection for Cross-Domain Recommendation Li Zhang, Yunfa Li, Chenggang Yan, Yuhan Gao, Xichun Sheng, Yiqi Li, Yizhi Wang and Dongyun Yan
21	Privacy-Preserving Video Analytics System with Trajectory Prediction: Foresee and Protect You Yuanquan Hu, Qing Shen and Dazhao Cheng
39	KG-Augmented LLM for Efficient and Correct Dockerfile Generation Kun Wang, Yao Wu, Hao Fan, Zhuo Huang, Lianghao Li, Lin Gu, Xiao Wang, Haibo Mi and Geyao Cheng
41	Quality-aware Multimodal Graph Learning via Attention-guided Fusion and Reliability-aware Optimization Shaohua Dong, Jiachun Chen, Wenjie Feng, Rui Xu and Bing Wei

JCC S1 | Part 2 of 2

LLM, AI Serving & Machine Learning

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	9:00-11:00	Online A	Lin Gu

ONLINE ACCESS		
JOIN VooV MEETING	MEETING ID 742-469-626	PASSCODE JCC2026

PAPERS

51	Pegasus: Accelerating Large Language Model Inference with Stateful Prefix Caching Fahao Chen, Peng Li, Dongxiao Yu and Song Guo
61	Computing-and-Power Cooperative Scheduling for Distributed AI Training at Scale Yuxin Chen, Zhuzhong Qian, Lin Qian, Yunqi Sun and Xiangyu Li
72	TraceGuard: A Multi-Agent Debate Framework for False Positive Filtering Luoyuan Shi, Yuanzhao Zhai, Dawei Feng and Bo Ding
87	EntityNav: An Entity-Centric Stepwise Planning Framework for Vision-Language Navigation Hengyi Yang, Yong Zhou, Shang Liu and Jiawei Jiang

JCC S2 | Part 1 of 2

LLM, AI Serving & Machine Learning

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	11:40-13:00	Online A	Xiaofeng Hou

ONLINE ACCESS		
JOIN VooV MEETING	MEETING ID 742-469-626	PASSCODE JCC2026

PAPERS

68	GreenAlign: Aligning Mixed LLM Workloads with Intermittent Renewable Supply Chang Liu, Jiacheng Liu, Xiaofeng Hou, Chao Li and Minyi Guo
122	Boosting LLM Serving in Computility Networks via a Novel Publish–Subscribe Framework Yiliang Guo
133	AMSche: Affinity-Aware Microservice Scheduling for Communication-Intensive Tasks Hao Wei, Hailiang Chen, Jianan Sun, Miao Zhang, Yong Peng and Lujia Yin
135	AdaRAG: Budget-Aware Adaptive Retrieval-Augmented Generation via Hierarchical Reinforcement Learning Jianan Sun, Miao Zhang, Chen Chen, Hao Wei, Lujia Yin, Chuan Ai and Banghu Yin

JCC S2 | Part 2 of 2

LLM, AI Serving & Machine Learning

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	11:40-13:00	Online A	Xiaofeng Hou

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JOIN VooV MEETING	MEETING ID 742-469-626	PASSCODE JCC2026

PAPERS

147	Collaborative Resource Co-Optimization for Disaggregated Deep Learning Training Nianheng Tian, Zhuzhong Qian, Jiayue Wang and Xiangyu Li
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JCC S3 | Part 1 of 2

Networking, Distributed Systems, Blockchain & Security

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	9:00-11:00	Online B	Yang Feng

ONLINE ACCESS		
JOIN VooV MEETING	MEETING ID 547-529-099	PASSCODE JCC2026

PAPERS

19	LogHound: Coverage-Aware Path Reconstruction for Log-Based Fault Localization Zheyuan Lin, Yang Feng, Jianjun Chen, Ting Zhu, Guixue Chen and Jia Liu
8	OnChainSE: Verifiable Encrypted Search over Blockchain Data for JointCloud Environments Feng Jiang, Xiang Fu, Zihao Guan, Liaoliao Feng, Moheng Lin and Huaimin Wang
12	Anchor-Sketch: Persistence-Driven Eviction for Identifying Persistent and Infrequent Flows Zhihong Wang, Tao Zhang, Haozhi Tang, Hui Yu, Linfei Dong, Ziyi Liu, Yunsheng Liu, Xidao Luan and Hui Yin
46	Stateless Temporal-interleaved App-aware RDMA Jing Liu, Ningcheng Wang, Lunsheng Li, Wei Duan and Sheng Zhang

JCC S3 | Part 2 of 2

Networking, Distributed Systems, Blockchain & Security

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	9:00-11:00	Online B	Yang Feng

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JOIN VooV MEETING	MEETING ID 547-529-099	PASSCODE JCC2026

PAPERS

53	Bumblebee: Efficient Asynchronous Consensus for Scalable Distributed Systems with Sharding Shuang Tan, Peiyao Wang, Xiaoling Li and Wenbin Zhang
58	STON: Scaling Torus-Based AI Training Clusters via Optical Circuit Switches Qinwei Yang, Peirui Cao, Ruyi Zhang, Zhaochen Zhang, Shizhen Zhao, Dong Zhang, Bingheng Yan and Chen Tian
60	A Topology-Aware Machine Learning Framework for MPI Collective Algorithm Selection Mengcheng Jia, Wei Zhang, Huize Zhang, Min Xie and Yong Dong

JCC S4 | Part 1 of 2

Networking, Distributed Systems, Blockchain & Security

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	11:40-13:00	Online B	Kefei Li

ONLINE ACCESS		
JOIN VooV MEETING	MEETING ID 547-529-099	PASSCODE JCC2026

PAPERS

29	Personalized Federated Learning with Low-Rank Pruning-Based Adaptation for Non-IID Data Luxi Cheng, Chuan Sun, Xiaohan Yuan and Xiuhua Li
116	Adapting to Fair Coexistence of Heterogeneous Transport-Protocol Traffic for Cloud Centers Shan Huang, Dinghuang Hu, Gen Zhang, Ke Zhang, Lingbin Zeng and Qiang Fan
121	HRC-DKB: A Lightweight Dual-Key Batch Authentication Protocol for VANET in Heterogeneous Resource-Constrained Environments Mo Wang, Xiangwei Meng, Zulong Diao, Sheng Huo, Xi Tan and Wei Liang
132	Shrimp: Efficient Warm Data Query with Ledger Hierarchy for Blockchain Client in JointCloud Kun Li, Jian Chang, Fang Hu and Xiaohai Dai

JCC S4 | Part 2 of 2

Networking, Distributed Systems, Blockchain & Security

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	11:40-13:00	Online B	Kefei Li

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PAPERS

134	Commit-HABE: A Commitment-Based Auditable Attribute-Based Encryption for Blockchain-Based Medical Data Sharing Systems Kefei Li, Xiangwei Meng, Cangming Liang, Zulong Diao, Dacheng He and Wei Liang
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JCC S5 | Part 1 of 2

Edge Computing, UAV, Federated Learning & AIOps

DATE	TIME (JST)	VENUE	CHAIR
Wednesday, July 29	9:00-11:00	Online B	Zhen Li

ONLINE ACCESS		
JOIN VooV MEETING	MEETING ID 694-656-784	PASSCODE JCC2026

PAPERS

73	Cooperative Multi-UAV Target Exploration with Graph-Based Reinforcement Learning Batuo Zhang, Lei Liu, Zhongmin Yan and Hongjun Dai
74	Spatially Predictive Intent for Multi-Agent Coordination in UAV Exploration Chenglin Tang, Lei Liu, Xudong Lu and Hongjun Dai
48	An Edge-to-Cloud Data Processing Framework for Real-Time Emergency Situational Awareness in Multi-Cloud Environments Lina Wu and Keqiu Li
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66	Rethinking Execution Granularity for Heterogeneous Zero-Knowledge Proof Provers Weiliang Ma, Qian Xiong, Yufan Bai, Xuanhua Shi and Hai Jin
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95	LogTile: Efficient Log Compression for Distributed Log Aggregation Scenarios Shulin Zhou, Kun Wang, Xianwei Lv, Hao Fan, Zhen Li, Fengzeng Liu and Haibo Mi
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35	Utility-Guided Orchestration for Cost-Efficient Tool-Augmented LLM Services Liu Boyan, Zhao Gongming, Hongli Xu, Huihui Tang, Wenpeng Zhu, Li Li and Yuanpu Zhang
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LLM, AI Services & Knowledge Engineering

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94	Model Profiling-based Model Routing Method for Mathematical Reasoning Zhaoxie Xu, Xu Zhang, Xudong Gong, Dawei Feng and Huayou Su
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11	CoopDedup: A Terminal-Edge-Cloud Cooperation Framework for Deduplication-Based Backup Service Geyao Cheng, Junxu Xia, Hao Fan, Haibo Mi, Fengzeng Liu and Kun Wang
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