



Final Program

34th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD2026)



**Okayama University (Tsushima Campus)
Okayama, Japan
August 22-24, 2026**

**Sponsored by IEEE Computer Society
& International Association for Computer & Information Science (ACIS)**

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Program at a Glance

Saturday, August 22, 2026

	Okayama Visionary Commons (OUC) (N56) (2nd floor)	Building 4, Faculty of Engineering (N33)				
		Room 10 (2nd floor)	Room 11 (2nd floor)	Room 14 (4th floor)	Room 303 (3rd floor)	Room 103 (1st floor)
10:00-12:30	Registration					
11:00-11:30	Opening					
11:30-12:30	Keynote					
12:30-13:30		Lunch	Lunch	Lunch		Registration & Free Lunch Box pickup
13:30-15:00		SS2-1	Regular 1	SS4-1		
15:00-15:30		Break	Break	Break		
15:30-17:00		SS2-2	Regular 2	SS4-2		

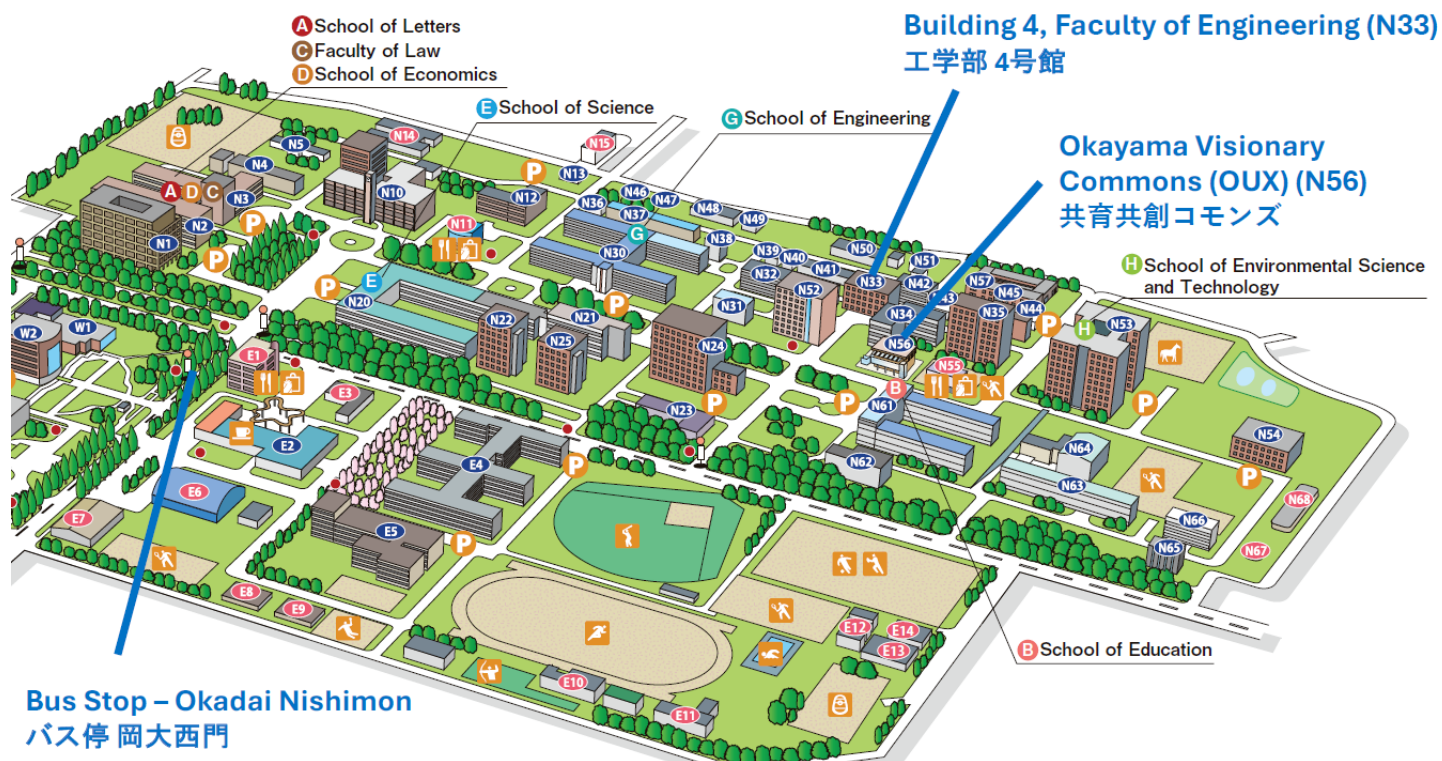
Sunday, August 23, 2026

		Building 4, Faculty of Engineering (N33)				
	OUX (2nd floor)	Room 10 (2nd floor)	Room 11 (2nd floor)	Room 14 (4th floor)	Room 303 (3rd floor)	Room 103 (1st floor)
9:00-10:30		Regular 3	Regular 4	SS6-1		Registration & Free Lunch Box pickup
10:30-11:00		Break	Break	Break		
11:00-12:30		Regular 5	Regular 6	SS6-2	SS3-1	
12:30-13:30		Lunch	Lunch	Lunch	Lunch	
13:30-15:00		SS1-1	Regular 7	SS6-3	SS3-2	
15:00-15:30		Break	Break	Break	Break	
15:30-17:20		SS1-2	Regular 8	SS5-1	SS3-3	
18:30-	Dinner & Award Ceremony at Ark Hotel Okayama (Charter buses depart from OUX at 17:40)					

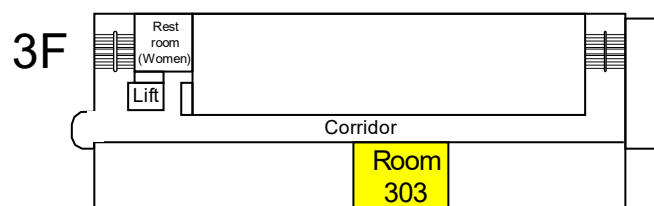
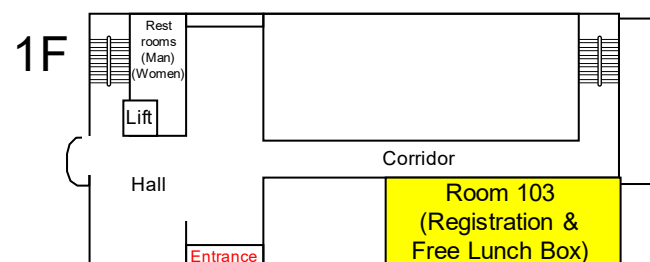
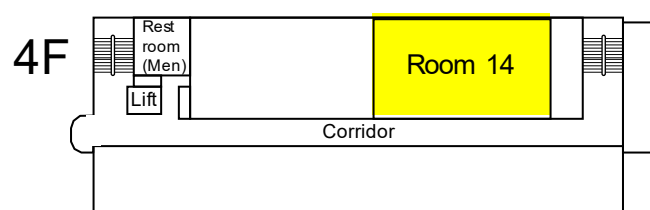
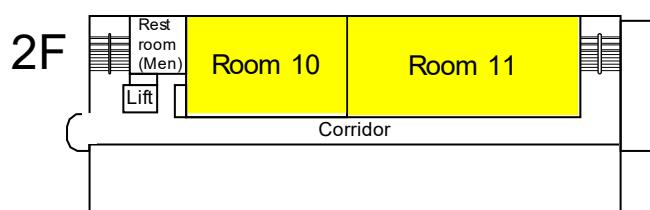
Monday, August 24, 2026

	OUC (2nd floor)	Building 4, Faculty of Engineering (N33)				
		Room 10 (2nd floor)	Room 11 (2nd floor)	Room 14 (4th floor)	Room 303 (3rd floor)	Room 103 (1st floor)
9:30-11:00	Regular 9	Regular 10	Regular 11		SS5-2	Help Desk
11:00-11:30	Closing					

Venue Map (Okayama University – Tsushima Campus)



Conference Rooms in Building 4, Faculty of Engineering (N33)



Keynote

Trustworthy AI Using Interpretable and Evidential Deep Learning

Dr. Mingon Kang

Associate Professor, Department of Computer Science,

University of Nevada, Las Vegas

mingon.kang@unlv.edu

Abstract

Recently, deep learning (DL) algorithms have become one of the most promising methods in biomedical research. Although DL has the strength of outstanding predictive performance by capturing nonlinear and hierarchical representations, most deep learning models lack interpretability, which is critical in biomedical research. Dr. Kang's research team has focused on developing novel deep learning methodologies which are biologically interpretable to discover new domain knowledge and producing reliable predictions for complicated bioinformatics problems. In this talk, I will present several recent research works of interpretable and evidential deep learning for various biomedical data analysis, including omics data, medical image analysis, and introduce new computational challenges and AI-based solutions.

Biography

Dr. Mingon Kang is an associate professor in the Department of Computer Science at The University of Nevada, Las Vegas. His research interests include Machine Learning, Big Data Analytics, Data Science, and Bioinformatics. Specifically, Dr. Kang has been focusing on developing novel AI/ML models for integrative and interpretable deep learning. He has published +95 research papers in prestigious journals and conferences, including Nature Communications, Briefings in Bioinformatics, Bioinformatics, BMC Bioinformatics, Nature Methods, PNAS, IEEE/ACM Transactions on Computational Biology and Bioinformatics, Intelligent Systems for Molecular Biology (ISMB), and Pacific Symposium on Biocomputing (PSB). His research has been supported from Department of Energy (DoE), NSF, The Centers for Medicare & Medicaid Services (CMS), NASA, Health Resources and Services Administration (HRSA), and Institute for Information & Communication Technology Promotion (IITP), and collaborated with medical research centers such as Indiana University School of Medicine and Cincinnati Children's Hospital. Dr. Kang obtained his Ph.D. and master degrees from The University of Texas at Arlington in 2015 and 2010 respectively.

Program in Detail

Saturday, August 22, 2026

10:00-12:30 Registration (OUX)
11:00-11:30 Opening Ceremony (OUX)
11:30-12:30 Keynote (OUX)
12:30-17:00 Registration (Room 103)
12:30-13:30 Lunch (Free lunch boxes are available in Room 103)
13:30-15:00 SS2-1 (Room 10), Regular 1 (Room 11), SS4-1 (Room 303)
15:00-15:30 Break
15:30-17:00 SS2-2 (Room 10), Regular 2 (Room 11), SS4-2 (Room 303)

13:30-15:00 – Special Session 2-1

Room 10

Session Title: Application of Computer and Information Science for Business Management, Innovation, and Organizational Transformation

Organizer: Yukihiro SHINTANI (Chiba Institute of Technology, Japan)

Social Sustainability and Non-Technical Debt in Software Teams

Muhammad Ovais Ahmad (Karlstad University, Sweden)

Transforming Traditional Organizations into DAOs across Different Corporate Scales

Toru Takagi, Yukihiro Shintani (Chiba Institute of Technology, Japan)

A Comparative Study of Multimodal AI Architectures for Topology-Independent Risk Prediction at Uncontrolled Intersections

Hiroya Kawahara, Kosuke Higuchi, Daisuke Miyazaki, Toru Takagi, Yukihiro Shintani (Chiba Institute of Technology, Japan)

13:30-15:00 – Regular Session 1

Room 11

Session Title: E-Learning, HCI, and User-Centered Design

Session Chair: Kenichi Matsumoto (Nara Institute of Science and Technology)

Virtual Reality Versus Traditional Instruction in Undergraduate Chemistry Laboratories: A Controlled Pilot Comparison

Muhammad Hassan Jamil, Simon Xu, Bill Dew (Algoma University, Canada)

Predicting Struggling Students in CS1 Programming Using Keystroke-Level Editing Features

Yasuyo Kofune, Kazumasa Shimari, Kenichi Matsumoto (Nara Institute of Science and Technology, Japan)

Empirical Analysis of Generative AI Usage Patterns and Repository Activities in Collaborative Software Development Education

Mika Ohtsuki, Tetsuro Kakeshita (Saga University, Japan)

Riding-Style-Aware Personalized Motorcycle Design Generation Using AIME-Based Feature Translation

Shotaro Shiraha and Takafumi Nakanisi (Tokyo University of Technology, Japan)

13:30-15:00 – Special Session 4-1

Room 14

Session Title: Wellbeing and Affective Engineering

Organizers: *Teruhisa Hochin (Otemon Gakuin University, Japan), Akihiro Ogino (Kyoto Sangyo University, Japan), Makoto Fukumoto (Fukuoka Institute of Technology, Japan), Yuichiro Kinoshita (Shibaura Institute of Technology, Japan)*

Compassion and Tenderness for Bringing Well-being Life
Teruhisa Hochin (Otemon Gakuin University, Japan)

Detecting Compassion and Tenderness for Well-being Life
Teruhisa Hochin, Chika Nagaoka (Otemon Gakuin University, Japan)

Influence of Fluctuations in Classical Music on Sensitivity
Mone Hatanaka, Teruhisa Hochin (Kyoto Institute of Technology, Japan)

15:00-15:30 – Break

15:30-17:00 – Special Session 2-2

Room 10

Session Title: Application of Computer and Information Science for Business Management, Innovation, and Organizational Transformation

Designing a Blockchain-Based AI Artifact Integrity Governance Layer for Organizational Machine Learning: A Controlled Proof-of-Concept
Kaede Kubota, Shinya Abe, Haruto Matsumoto, Yukihiro Shintani (Chiba Institute of Technology, Japan)

A Wallet-Signature Attendance Management System Inspired by Decentralized Identifiers for Verifiable Record Governance in Higher Education Organizations
Ryohei Nishiwaki, Masaharu Watanami, Yuto Hirata, Yukihiro Shintani, Toru Takagi (Chiba Institute of Technology, Japan)

15:30-17:00 – Regular Session 2

Room 11

Session Title: Generative AI for Software Engineering and Architecture

Session Chair: *Shin-Jie Lee (National Cheng Kung University)*

Code Quality in AI-Assisted Software Development
Muhammad Ovais Ahmad, Jonathan Vestin (Karlstad University, Sweden)

An AI Chatbot Assisting in the Generation of ER Diagram and CRUD for Requirements Engineering
Yuto Koyanagi, Tetsuro Kakeshita (Saga University, Japan)

Belief-State Guided Multi-Agent Collaboration and Runtime Exploration for Software Bug Reproduction
Kuang-Fu Wu, Shin-Jie Lee and Shang-Pin Ma (National Cheng Kung University, Taiwan)

LLM-Powered ChatOps-Based Microservice Quality Analysis and Assessment
Chen-Hao Chao, Shang-Pin Ma, Yu-Chieh Chang, Wen-Tin Lee (National Taiwan Ocean University, Taiwan)

15:30-17:00 – Special Session 4-2

Room 14

Session Title: Wellbeing and Affective Engineering

Location and Action Recommendation System Using a Hierarchical Active Inference Model

Kota UENO, Akihiro Ogino (Kyoto Sangyo University, Japan)

Toward Mood Induction Through Time-Varying Aroma Sequences: Proposal of the Olfactory Iso Principle

Makoto Fukumoto (Fukuoka Institute of Technology, Japan)

Sunday, August 23, 2026

9:00-17:20 Registration (Room 103)
9:00-10:30 Regular 3 (Room 10), Regular 4 (Room 11), SS6-1 (Room 14)
10:30-11:00 Break
11:00-12:30 Regular 5 (Room 10), Regular 6 (Room 11), SS6-2 (Room 14), SS3-1 (Room 303)
12:30-13:30 Lunch (Free lunch boxes are available in Room 103)
13:30-15:00 SS1-1 (Room 10), Regular 7 (Room 11), SS6-3 (Room 14), SS3-2 (Room 303)
15:00-15:30 Break
15:30-17:20 SS1-2 (Room 10), Regular 8 (Room 11), SS5-1 (Room 14), SS3-3 (Room 303)
18:30- Dinner & Award Ceremony at Ark Hotel Okayama
(Charter buses depart from OUX at 17:40)

9:00-10:30 – Regular Session 3 **Room 10**

Session Title: Web Information Processing and Knowledge Discovery

Session Chair: Sousuke Amasaki (Nanzan University)

Bridging Alternative Academic Evidence and Publications for Sparse-Profile Researcher Discovery: A Work-in-Progress Study

Manasseh Mwansa, Takayuki Nagai (Kyoto Institute of Technology, Japan)

A Preliminary Study on the Gap between Library Seekers and Recommenders in Stack Overflow

Sousuke Amasaki (Nanzan University, Japan), Hirohisa Aman (Ehime University, Japan), Tomoyuki Yokogawa (Okayama Prefectural University, Japan)

Evaluating Causal Impact of Hacker News on GitHub Repositories

Natthakit Netsiwawichian, Osamu Mizuno, Kinari Nishiura (Kyoto Institute of Technology, Japan), Budit Manaskasemsak (Kasetsart University, Thailand), Arnon Rungsawang (Chitralada Technology Institute, Thailand)

A Method for Identifying Reference Texts Using Citation Intent and Contextual Information

Shunsuke Sagawa (Okayama University, Japan), Teruhito Kanazawa (National Institute of Informatics, Japan), Fumito Uwano (Tokyo University of Agriculture and Technology, Japan), Manabu Ohta (Okayama University, Japan)

9:00-10:30 – Regular Session 4 **Room 11**

Session Title: Generative AI, NLP, and Intelligent Reasoning

Session Chair: Arnon Rungsawang (Chitralada Technology Institute)

From Logs To Logic: Improved State-Consistent Action Selection with Counterfactual Injection

Arif Emre Bahar, Hironobu Abe (Tokyo Denki University, Japan)

SA-CoT: Self-Analyzing Chain-of-Thought for Explicit Reasoning Effort Allocation

Rajata Thamcharoensatit (Kasetsart University, Thailand), Budit Manaskasemsak (Kasetsart University, Thailand), Arnon Rungsawang (Chitralada Technology Institute, Thailand)

Internal and External Constraints for Controllable Multi-LLM Orchestration
Takumi Sugimoto, Takafumi Nakanishi (Tokyo University of Technology, Japan)

Agentic / Planner-based Retrieval-Generation Hybrid for Scientific Question Answering
Abinash Karki, Rashid Hussain Khokhar, Mahreen Nasir and Muhammad Azam (Algoma University, Canada)

9:00-10:30 – Special Session 6-1

Room 14

Session Title: Systems and Services with/for Data-Intensive Approach

Organizers: Masahide Nakamura, Sinan Chen, Takuya Nakata (Kobe University, Japan)

Visualizing Older Adults' Social Connections Using a VA Listening Service
Daito Kamata, Akinori Matsukawa, Nahyun Kim, Takuya Nakata, Keiko Katagiri, Masahide Nakamura (Kobe University, Japan)

Picture Diary Generation Service Using Visual Images for Elderly Memory Support
Haruto Onishi, Keiko Kodama, Syun Hirai, Takuya Nakata, Sinan Chen, Kiyoshi Yasuda, Masahide Nakamura (Kobe University, Japan)

Evaluating feasibility of LLM for quantitative assessment of clock drawing test
Maki Masahiro, Keisuke Yoshida, Shun Hirai, Sachio Saiki, Takuya Nakata, Sinan Chen, Atsushi Sato, Naoki Kodama, Masahide Nakamura (Kobe University, Japan)

Comparison of a Sequential Generation Method and an Array-Based Representation Method Using Evaluation Functions for Soft Tennis Doubles Match Schedule Generation
Hiroki Tanabe, Kazuaki Yamaguchi, Masahide Nakamura (Kobe University, Japan)

10:30-11:00 – Break

11:00-12:30 – Regular Session 5

Room 10

Session Title: Audio, Speech, Multimedia, and Human-Centered AI

Session Chair: Junzo Kamahara (Osaka Seikei University)

Toward Natural-Language-Controlled MIDI Accompaniment: A Hierarchical Architecture with LLM-Based Planning and Low-Level Music Generation
Takumi Watanabe, Takafumi Nakanishi (Tokyo University of Technology, Japan)

Toward a Structured Representation of Implicit Meaning in Japanese Euphemistic Expressions for Context-Aware Language Models
Haruki Kusahara, Takafumi Nakanishi (Tokyo University of Technology, Japan)

A Multimodal Cooking Support AI Agent Using Ingredient Recognition and a Local Large Language Model
Jungwoo Seo, Takafumi Nakanishi (Tokyo University of Technology, Japan)

Dual-Phase Response Generation for Low-Latency Spoken Dialogue in a Virtual Avatar System
Junzo Kamahara (Osaka Seikei University, Japan)

11:00-12:30 – Regular Session 6

Room 11

Session Title: Information Security, Integrity, and Cybersecurity

Session Chair: Masateru Tsunoda (Kindai University)

Multi-Objective Security Control Configuration Considering Cascading Risk Propagation and Dynamic Effectiveness Degradation

Wenjun Xiang, Wen Zeng, Chuang Ma (Shanghai Polytechnic University, China), Mara Nikolaidou Harokopio (University of Athens, Greece)

Design and Implementation of a Cyberspace Mapping Engine with Unified Query and Multi-Source Fusion

Chuang Ma, Jianhe Li, Xiaoming Hu, Wenjun Xiang, Wen Zeng (Shanghai Polytechnic University, China)

Behavior-Based Android Malware Detection Using System Call and Binder Features

Nagakeerthana Kollavajjala, Rama Satya Chittala (Mahindra University, India), Raghu Kishore N (Mahindra Ecole Centrale, India)

ANSIM Lab: A Host-Based Testbed for Ransomware Emulation and Evaluation

Mohammed Akram Taher Khan, Mahreen Nasir, Rashid Hussain Khokhar, Muhammad Azam (Algoma University, Canada)

11:00-12:30 – Special Session 6-2

Room 14

Session Title: Systems and Services with/for Data-Intensive Approach

A Multi-Objective Fair Shift Scheduling Problem for Restaurants with Long Working Hours

Masaki Hidaka (Kyoto University, Japan), Kazuaki Yamaguchi, Masahide Nakamura (Kobe University)

Estimating Individual Optimal Leisure Activities Based on Lifelog Data and Self-Assessed Happiness

Kazuki Hirano (Kyoto University, Japan), Takuya Nakata, Sinan Chen, Masahide Nakamura (Kobe University)

Cross-Platform Software Birthmarking for Real-World Binaries via Intermediate Representation

Haruaki Tamada (Kyoto Sangyo University, Japan)

Supporting Git/GitHub Troubleshooting Practice for a Single Learner with AI Agents

Takeaki Kitamoto, Hiroshi Igaki (Osaka Institute of Technology, Japan)

11:00-12:30 – Special Session 3-1

Room 303

Session Title: Theory and Application of Innovative Software

Organizer: Takaaki Goto (Toyo University)

Designing for Auditability: An Integrated Governance Framework for Agentic AI Software Development

Takaaki Goto, Masafumi Nakano (Toyo University, Japan)

Diagnosing AI Governance Practices to Keep or Remove in AI-Enabled Software Systems

Eriko Saito (Otemon Gakuin University, Japan), Masafumi Nakano (Toyo University, Japan)

Self-Supervised Heterogeneous Graph Neural Networks with Fuzzy Temporal Windows for Overlapping Community Transitions

Toshihiro Yoshizumi (Kaetsu University, Japan), Tadaaki Kirishima (Toyo University, Japan)

DeepPark: An LLM-Driven End-to-End Multi-Agent Autonomous Smart Parking System with Digital Twin Synchronisation

Shinjan Sinha, Subhajeet Gorai, Ratul Chowdhury, Monalisa Ghosh (Netaji Subhash Engineering College, India), Takaaki Goto (Toyo University, Japan), Partha Ghosh (Academy of Technology, India)

12:30-13:30 – Lunch

Room 10, 11, 14, 303

Lunch boxes are available in Room 103.

13:30-15:00 – Special Session 1-1

Room 10

Session Title: Organization of Innovative Computer System for Large-scale and Flexible Computing

Organizer: *Atsushi Nunome (Kyoto Institute of Technology, Japan)*

Implementation and Evaluation of Nested Secret Sharing Scheme for Secure Multi-Cloud Data Storage: A Hybrid Approach Combining Information-Theoretic and Computational Security
Noah Kimaru, Hideo Masuda (Kyoto Institute of Technology, Japan)

Preliminary Performance Evaluation of MPI Parallel Processing on Web Browsers via WebAssembly
Takuma Kitamoto, Kanemitsu Ootsu (Utsunomiya University, Japan), Takumi Tashiro (Meiwa Computer System Co., Ltd, Japan)

Scalable Access History Management for Adaptive Data Migration in Hierarchical Storage Systems
Atsushi Nunome, Hiroaki Hirata (Kyoto Institute of Technology, Japan)

13:30-15:00 – Regular Session 7

Room 11

Session Title: Data Mining, Machine Learning, and E-Commerce Applications

Session Chair: *Masateru Tsunoda (Kindai University)*

Reliable Feature Ranking for Approximate Inverse Model Explanations Using Bootstrap-Based Uncertainty Estimation

Takafumi Nakanishi (Tokyo University of Technology, Japan)

Ranking-Oriented Semantic E-Commerce Product Recommendation with Hard Negative Sampling
Lian Chen, Syed Muhammad Danish, Mahreen Nasir (Algoma University, Canada)

Three Geometric Lenses for Explainable Mean-Shift Outlier Detection
Pusit Kulkasem, Watcharaphong Yookwan, Krisana Chinnasarn (Burapha University, Thailand), Takafumi Nakanishi (Tokyo University of Technology), Suwanna Rasmeequan (Burapha University, Thailand)

Extending Financial Question Answering with Narrative Data Binding for Explainable Visualization
Fan-Wei Tsai, Wen-Tin Lee (National Kaohsiung Normal University, Taiwan)

13:30-15:00 – Special Session 6-3

Room 14

Session Title: Systems and Services with/for Data-Intensive Approach

How Developers Discuss Generative AI: A Longitudinal Study of the Visual Studio Code Community
Panida Rumriankit (Kasetsart University, Thailand), Akito Monden, Hiroki Inayoshi (Okayama University, Japan), Pattara Leelaprute, Bundit Manaskasemsak, Kundjanasith Thonglek (Kasetsart University, Thailand), Arnon Rungsawang (Chitralada Technology Institute)

Humans vs. Large Language Models in Black-Box Test Case Generation from Software Specifications
Natchanon Manatphaiboon, Akito Monden, Hiroki Inayoshi, Daichi Shigechika (Okayama University, Japan), Kinari Nishiura (Kyoto Institute of Technology, Japan)

Vir-Curora: Prototyping a Bilingual Retrieval-Augmented Virtual Curator from Oral Interviews at a Cultural Heritage Site
Phasit Ruangmak (Kasetsart University), Taito Yoshimura, Hirotaka Tsutsui, Eriko Ozaki, Pattara Leelaprute, Yuki Matsuda (Okayama University)

13:30-15:00 – Special Session 3-2

Room 303

Session Title: Theory and Application of Innovative Software

A Greedy Approach for Supply Chain Optimization Integrating Multiple Public Transportation Networks
Leena Jana Ghosh (Aliah University, India), Arha Banerjee (University of Edinburgh, Scotland, United Kingdom), Partha Ghosh (Academy of Technology, India), Takaaki Goto (Toyo University, Japan), Moumita Chatterjee (Aliah University, India), Soumya Sen (University of Calcutta, India)

A Turnkey Framework for Democratizing User Study Infrastructure
Zachary Estreito, Vinh Le, Frederick Harris, Jr., Sergiu Dascalu. (University of Nevada, Reno, USA)

Visual Analytics for Agricultural Trade: Design and Evaluation of an Interactive Multi-Dimensional Dashboard
Maryam Ghaed, Hossein Jamali, Richard Plotkin, Sergiu Dascalu (University of Nevada, Reno, USA)

A First-Winter Proof of Concept; (08) Advanced Imputation Techniques for Robust Real Environmental Data Analysis in IoT-Enabled Research Networks
Hossein Jamali, Frederick C. Harris, Jr., Sergiu Dascalu (University of Nevada, Reno, USA)

15:00-15:30 – Break

15:30-17:20 – Special Session 1-2

Room 10

Session Title: Organization of Innovative Computer System for Large-scale and Flexible Computing

Evaluation of a Centralized-Distributed Collaborative WAN Virtualization Architecture
Tatsuya Tohyama, Hideo Masuda (Kyoto Institute of Technology, Japan)

Parallelizing the Linear Linked-List Construction
Hironori Shiotsuka, Hiroya Kurita, Atsushi Nunome, Hiroaki Hirata (Kyoto Institute of Technology, Japan)

Direction-Vector-Based Routing in OPLH-Based Extendible Skip Graphs
S.M. Ehesanul Hamid, Ken Higuchi (University of Fukui, Japan)

15:30-17:20 – Regular Session 8

Room 11

Session Title: Algorithms, Soft Computing, and Evolutionary Optimization

Session Chair: *Stephan Recker (Dortmund University of Applied Science and Arts)*

Towards Clustering in P2P networks using Improved Binary Crayfish Optimization Algorithm

Mohammad Masdari, Stephan Recker (Dortmund University of Applied Science and Arts, Germany)

Effect of Edge Exchange Scale on Search in Edge Assembly Crossover with Tabu Search

Takeru Hiragi, Yoshiko Hanada (Kansai University, Japan)

A Dynamic Rotation Angle-Based Quantum Evolutionary Hyperparameter Optimization Framework for Quantum-Inspired CNNs

N Sai Srithaja, Dr Om Prakash Patel (Mahindra University Hyderabad, India)

Evaluation of Global Search Performance of Multi-objective Genetic Algorithm using MNK problems

Ryoto Nakano (Kansai University), Kohei Oda (Japan Advanced Institute of Science and Technology, Japan),

Yoshiko Hanada (Kansai University, Japan), Yukiko Orito (Tamagawa, Japan)

15:30-17:20 – Special Session 5-1

Room 14

Session Title: Analysis, Evaluation, and Usage of Information, Systems, and Humans

Organizers: *Yuya Yokoyama (Fujita Health University, Japan), Teruhisa Hochin (Otemon Gakuin University, Japan), Ushio Inoue (Tokyo Denki University, Japan), Hiroki Nomiya (Kyoto Institute of Technology, Japan)*

Two-stage Facial Expression Classification Using CNN and SVM

Gentaro Homma, Hiroki Nomiya (Kyoto Institute of Technology, Japan)

Predicting Listener's Emotions Based on Speaker's Voice

Ayumu Hatakeyama, Hiroki Nomiya (Kyoto Institute of Technology, Japan)

Takekomai Recognition from SLAM-Generated Point Clouds in Kyomachiya Environments

Kairi Fujimura, Ikumi Noborio, Makoto Muramoto, Weiwei Du (Kyoto Institute of Technology, Japan)

Evaluation of Emotion Recognition Using Frontalized Face Images Reconstructed from Non-Frontal Face Images

Rito Yasuoka, Hiroki Nomiya, Masaki Osumi (Kyoto Institute of Technology, Japan)

On the application of Max-plus algebra to slicing floorplans

Toshiyuki Nakamura, Naoshi Sakamoto (Tokyo Denki University, Japan)

15:30-17:20 – Special Session 3-3

Room 303

Session Title: Theory and Application of Innovative Software

An Exploration of Interaction and Engagement in a Language Learning Role-Playing Game

Jack Ratermann and Sergiu Dascalu (University of Nevada, Reno, USA)

Road Citizen Inspector (RCI): A Web-Based Visualization Application and User-Centered Usability
Evaluation for Citizen Science Traffic Monitoring

Araam Zaremehrijardi, Joanna Lopez, Sergiu M. Dascalu, Frederick C. Harris Jr. *(University of Nevada, Reno, USA)*

Resolving Snow Disappearance Timing on Paired Burned and Unburned Sierra Nevada Slopes with a Low-Cost LoRaWAN Sensor Network: A First-Winter Proof of Concept

Jehren Boehm, Hossein Jamali, Alex Weirauch, Anne Heggli, Scotty Strachan, Sergiu M. Dascalu, Frederick C. Harris Jr. (University of Nevada, Reno, USA)

MASA: A Backend System for Neural Network Analysis and Storage

Chase Carthen, Alireza Tavakkoli, Frederick C. Harris Jr. (University of Nevada, Reno, USA)

Dinner & Award Ceremony at Ark Hotel Okayama (Charter buses are available)

Monday, August 24, 2026

9:30-11:00 Regular 9 (OUX), Regular 10 (Room 10), SS5-2 (Room 303)
11:00-11:30 Closing (OUX)

9:30-11:00 – Regular Session 9

OUX

Session Title: Image Processing, Visual Computing, and Intelligent Systems

Session Chair: Takafumi Nakanishi (Tokyo University of Technology)

Early Dental Lesion Characterization Using Multimodal Clinical Imaging and SEM-EDX with Deep Learning
Watcharaphong Yookwan, Pusit Kulkasem, Krisana Chinnasarn (Burapha University, Thailand)

Cognitive Active Database: A Cognition–Detection–Synchronization Operator Model for Perception-Triggered Physical-to-Digital State Synchronization
Ion Nakagawa, Takafumi Nakanishi (Tokyo University of Technology, Japan)

Interpretable Goal Prediction from Soccer Possession Sequences Using Event and Tracking Data
Reo Kurihara and Takafumi Nakanishi (Tokyo University of Technology, Japan)

Spherical Bounding Box Merging for 360-Degree Object Detection with Planar Detectors
Hiroto Igeta and Shohei Yokoyama (Tokyo Metropolitan University, Japan)

9:30-11:00 – Regular Session 10

Room 10

Session Title: Big Data, Database Systems, and Intelligent Data processing

Session Chair: Hideyuki Kawashima (Keio University)

Multi-dimensional Global Store Statement Aggregation
Yudai Yamagishi, Yasunobu Sumikawa (Takushoku University, Japan)

TinyViT and Stable Diffusion Synthesis for Wafer Map Defect Classification on WM-811K
Ghulam Ashraf, Wen-Tin Lee and Shin-Jie Lee (National Kaohsiung Normal University, Taiwan)

A Unified Evaluation Framework for Positional Consistency in Networked Virtual Environments
Yuki Tanaka and Toshiya Takami (Oita University, Japan)

Kawasemi: Accelerating Transaction Processing with Bird’s Eye View
Kaori Kawashima, Pohsun An, Hideyuki Kawashima (Keio University, Japan)

9:30-11:00 – Regular Session 11

Room 11

Session Title: Embedded, Mobile, and Intelligent Engineering Systems

Session Chair: Kazunori Iwata (Aichi University)

Webcam-Based Writing Behavior Detection Using Upper-Body Pose and Hand Landmarks
Tomoya Furukawa, Takayuki Nagai (Kyoto Institute of Technology, Japan)

Circular Microstrip Patch Antenna Design and Performance Prediction Using Machine Learning
Mohamed Ashraf (Egypt Japan University of Science and Technology, Egypt)

Multi-Drone Flight Simulation in Real Urban Environments Using PLATEAU 3D City Data and Two-Phase A* Path Planning

Yuta Shimmura, Shinnosuke Suzuki, Shin Suzuki, Kazunori Iwata (Aichi University, Japan)

A Measurement Procedure for Identifying Barriers and Control Requirements in Shortening Feedback Loops in SDV Development

Takashi Miyata (University of Tsukuba, Japan), Takumi Kato (Meiji University, Japan), Kazuhiko Tsuda (University of Tsukuba, Japan)

9:30-11:00 – Special Session 5-2

Room 303

Session Title: Analysis, Evaluation, and Usage of Information, Systems, and Humans

Measuring User Engagement with Short-Form Video Through Facial Expression Analysis: A Pilot Study

Kim Hong Minh Quan, Hiroki Nomiya (Kyoto Institute of Technology, Japan)

Two-fold Cross-validation of Determining Under-expenditure of Elderly Households

Yuya Yokoyama (Fujita Health University, Japan)

Toward Poke Notifications: Exploratory Analysis of Arousal and Receiver-State Variables for Notification Stress

Munenori Koyasu, Ichi Kanaya, Keiko Yamamoto (Tokyo Denki University, Japan)

Simplifying Geometry in Humanoid Robot Faces: A Cross-Age Emotion Recognition Study

Meina Tawaki, Koki Shimomine, Keiko Yamamoto, Ichi Kanaya (Nagasaki University, Japan)

11:00-11:30 – Closing

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