iiWAS/MoMM 2025 Conference Program
8-10 December 2025, Matsue, Japan
Venue: **Kunibiki Messe (Shimane Prefectural Convention Center)**
Address: 1-2-1 Gakuenminami, Matsue, Shimane 690-0826, Japan

DAY 1, Monday, 8 Dec 2025

Time	
08:30 – 09:00	Registration at Foyer of International Conference Hall, 3rd Fl.
09:00 – 10:00	*Plenary Session at International Conference Hall, 3rd Fl.* • **Opening** **Opening speech and conference introduction** General Conference Chairs and PC Chair • **Keynote Talk** 1 **"Quantifying visual impressions of words based on real-world data analysis"** Ichiro Ide, Nagoya University, Japan
10:00– 10:30	**Coffee break**

10:30 – 12:00	**Track 1** **Room:** *International Conference Hall, 3rd Fl.*	**Track 2** **Room:** *Large Conference Room 601, 6th Fl.*	**Track 3** **Room:** *Large Conference Room 501, 5th Fl.*
	MoMM – 1 **Mobile Multimedia Processing and Interaction**	**iiWAS – 1** **Natural Language Processing**	**iiWAS – 2** **Applications of LLMs**
	paperID#: 24,260,650	paperID#: 16,20,36	paperID#: 47,48,55
	•Diffusion-TS: A Hybrid Model for Human Skeleton Prediction *Yuren Zhang, Atsuya Watanabe, Zhongnan Pu, Lei Jing* *Japan* •LightVideoRAG: Low-Resource Long Video Question-Answering via Adaptive Sampling and Context-Aware Retrieval *Zifeng Shi, Mizuho Iwaihara* *Japan* •Exploring the Design of Context-Aware Widget Recommender System in Mixed Reality *Yiming Sun, Yang Zhan, Tatsuo Nakajima* *Japan*	•Learning Disentangled Document Representations Based on a Classical Shallow Neural Encoder *Yuro Kanada, Sumio Fujita, Yoshiyuki Shoji* *Japan* •Generating Interactive Japanese Puns Based on Phoneme Similarity *Yilin Wang, Takehiro Yamamoto, Hiroaki Ohshima* *Japan* •Japanese Rhyme Generation Based on Mora Similarity and Generation Probability *Ryota Mibayashi, Takehiro Yamamoto, Hiroaki Ohshima* *Japan*	•Enhancing Algorithms with LLMs: A Case Study *Yashar Talebirad, Osmar Zaïane, Amirhossein Nadiri, Christine Largeron* *Canada* •Automated Instruction Generation via Alternating Evaluation and Creation with LLMs *Ryo Tanaka, Yu Suzuki* *Japan* •Two-Stage Fine-Tuning for Dialogue Generation with Small Community Prominent Leaders' Philosophies *Tetsuya Kitahata, Kazuhiro Seki, Akiyo Nadamoto* *Japan*
12:00 – 13:00	**Lunch break**		

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13:00 – 15:00	**MoMM – 2** **Authentication and Security in Mobile Systems**	**iiWAS – 3** • **Applications of Generative AI** • **Content Generation and Creative AI**	**iiWAS – 4** • **Machine Learning and Its Applications** • **EduTech**
	paperID#: 3,4,8,23	paperID#: 19,68,49,41,120	paperID#: 62,66,72,54,3
	•User-to-PC Authentication Through Confirmation on Mobile Devices: On Usability and Performance *Andreas Pramendorfer, Rainhard Dieter Findling* *Austria* •Anti-ESIA: Analyzing and Mitigating Impacts of Electromagnetic Signal Injection Attacks on Image Sensing *Denglin Kang, Youqian Zhang, Wai Cheong Tam, Xiapu Luo, Eugene Yujun Fu* *USA, China* •Dependency-Based Evolution Planning of a Multi-Version Microservice RAN Application *Emma Witt, Simin Nadjm-Tehrani* *Sweden* •Silent Speech Recognition Using Ear Canal Pressure Changes *Yasufumi Hoji, Hiroki Watanabe, Yoshinari Takegawa* *Japan*	•Can Stable Diffusion Recommend Outfits?: Outfit Recommendation from Fashion Item Images via Generative AI *Yuma Oe, Yoshiyuki Shoji* *Japan* •Effects of Image Samples on In-Context Learning of Multimodal Large Language Models *Tomoya Ikeda, Shuhei Yamamoto* *Japan* •Measuring Shape Unexpectedness of Exhibits based on Similarity and Outlier Detection *Maho Kinoshita, Wakana Kuwata, Hiroaki Ohshima* *Japan* •Automatic Facial Mist Application Skincare Based on Skin Condition Analysis *Natsumi Matsui, Ayumi Ohnishi, Ayaka Uyama, Teizo Sugino, Tsutomu Terada, Masahiko Tsukamoto* *Japan*	•Addressing Label Scarcity: Hybrid Anomaly Detection in Mental Healthcare Billing *Samirah Bakker, Yao Ma, Seyed Sahand Mohammadi Ziabari* *Netherlands* •BATT2GRAPH: A Hybrid CNN–LSTM and Temporal Graph-Based Approach for Lithium-Ion Battery SOH Prediction and Anomaly Detection *Hajer Akid, Mohamed Wadhah Mabrouk, Slimane Arbaoui, Ahmed Samet, Boudour Ammar* *France* •CoRA: Continual Learning for Multimodal Sensing with a Case Study in Mental Health *Tarannum Ara, Bivas Mitra* *India* •Exploring the Efficacy of Learning Analytics Dashboards for Metacognitive Activity Support in Self-Learning *Koki Saitoh, Chiemi Watanabe, Kouhei Kikuchi* *Japan* •UPPSALA- Universal Pictographic Pictorial Sentence Annotation for Language Acquisition *Werner Winiwarter* *Austria*
15:00 – 15:30	**Coffee break**		

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15:30 – 17:30	**MoMM – 3** **Wearable and Sensor-Based Systems for Human Performance**	**iiWAS – 5** • **Content Generation and Creative AI** • **Text Mining**	**iiWAS – 6** • **EduTech** • **Knowledge Representation and Semantic Web**
	paperID#: 17,19,26	paperID#: 30,21,22,29	paperID#: 6,50,63,56
	•System to Support Acquiring Midfoot Strike Running through Intermittent Feedback of Foot Pressure Balance *Ryo Nakamura, Ayumi Ohnishi, Tsutomu Terada, Masahiko Tsukamoto* *Japan* •Ear Canal Pressure-Based Oral Gesture Recognition for Saxophone Performance *Ayana Hamagawa, Hiroki Watanabe, Hiroya Miura, Yoshinari Takegawa* *Japan* •Step-based Sensor Data Segmentation using Foot Pressure Sensors *Yue Zhang, Ayumi Ohnishi, Tsutomu Terada, Masahiko Tsukamoto* *Japan*	•Generating Distinctive Recipe Names via Relative Feature Comparison in Recipe Set *Maoto Watanabe, Yoshiyuki Shoji* *Japan* •Supplementing Product Reviews: Retrieving Opinions from Products with Similar Attributes *Marino Fujii, Takehiro Yamamoto, Takayuki Yumoto* *Japan* •Generating Comparative Table by LLM-based Product Review Summarization *Kanako Nakai, Takehiro Yamamoto, Hiroaki Ohshima* *Japan* •Expanding Aspect Queries into Review Sentence Fragments for Product Comparison via LLM-Generated Synthetic Reviews *Naito Yoshihara, Takehiro Yamamoto, Yoshiyuki Shoji* *Japan*	•Experiences Before On-the-Job Training of University Graduates Employed in the IT sector in the Slovak Republic *Vincent Karovič, Marek Hlásny* *Slovakia* •CACIKI- Compositionally Analyzed Collection of Illustrated Kanji Information *Werner Winiwarter* *Austria* •Integration of Knowledge Bases and External Sources Incorporating Uncertainty in Entity Linking *Yuuki Ohmori, Hiroyuki Kitagawa, Toshiyuki Amagasa, Akiyoshi Matono* *Japan* •Data Specification Vocabulary (DSV): Representation of Application Profiles of Semantic Data Specifications *Jakub Klímek, Štěpán Stenchlák, Petr Škoda* *Czech Republic*
18:00 – 19:30	**Welcome Reception** **The Multipurpose Hall on the 1st Fl.,** Kunibiki Messe (Shimane Prefectural Convention Center). Matsue		

DAY 2, Tuesday, 9 Dec 2025

Time	
08:30 – 09:00	**Registration at Foyer of International Conference Hall, 3rd Fl.**
09:15 – 10:00	*Plenary Session at International Conference Hall, 3rd Fl.* • **Keynote Talk 2** **The Future Opened by Survival Informatics: Data Connecting Human and Social Well-being** Takako Hashimoto, Chiba University of Commerce and University of Tokyo, Japan
10:00 – 10:30	**Coffee break**

	Track 1 Room: *International Conference Hall, 3rd Fl.*	Track 2 Room: *Large Conference Room 601, 6th Fl.*	Track 3 Room: *Large Conference Room 501, 5th Fl.*
10:30 – 12:00	**MoMM – 4** **Virtual and Augmented Reality for Cognitive and Task Support**	**iiWAS – 7** • **Human-Computer Interaction and Statistical Methods** • **Applications of Generative AI**	**iiWAS – 8** **Privacy, Security, and Legal Compliance**
	paperID#: 5,9,18	paperID#: 220, 23, 49	paperID#: 67,5,45
	•Napping in the Virtual World: Exploring the Effects of VR Audiovisual Relaxation on Napping *Masahiro Kawarai, Tatsuo Nakajima* *Japan* •A Method for Reducing Cognitive Load by Virtually Relocating the Visual Position of Distracting Sound Sources Away from the Task Direction *Kyosuke Yamamoto, Kyosuke Futami, Kazuya Murao* *Japan* •AR Superimposed Display System with Video Synchronization *Yusuke Gotoh, Yuichiro Ikeda* *Japan*	•Investigating the Impact of Defocus on Font Visibility in Transparent Displays *Masakatsu Ezumi, Ayumi Ohnishi, Tsutomu Terada, Masahiko Tsukamoto* *Japan* •On the Relationship between Crude, Adjusted, Confounder and Latent Coefficients in Linear Regression *Sijo Arakkal Peious, Ahto Buldas, Dirk Draheim* *Estonia* •AI-Driven Web Game Development with Gemini 2.5 Pro *Elena Popp, Helmut Hlavacs, Werner Winiwarter* *Austria*	•Privacy Patterns and Objectives for Legally Compliant Software based on the Indonesia's PDP Law *Guntur Budi Herwanto, Arif Nurwidyantoro, Annisa Maulida Ningtyas, Muhammad Oriza Nurfajri, Gerald Quirchmayr, A Min Tjoa* *Indonesia, Austria* •RAG-Driven Financial QA: Preserving Privacy and Enhancing Performance with Synthetic Data *Niorn Suchonwanich, Siranee Nuchitprasitchai, Kanchana Viriyapant, Sucha Smanchat* *Thailand* •ML-Assisted Semi-Automated Analysis of Audio/Video Meeting Recordings *Farhan Ali Khoso, Gabriele Kotsis* *Italy, Austria*
12:00 – 13:00	**Lunch break**		

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13:00 – 14:30	**MoMM – 5** **Participatory and Applied Computing in Real-World Contexts**	**iiWAS – 9** **IoT, E-commerce, and Digital Innovation**	**iiWAS – 10** **Information Retrieval**
	paperID#: 21,190,510	paperID#: 59,43,71	paperID#: 37,70,15
	•Grounded in the Fields: Participatory Foundations for Human-Centered Agricultural Software in Central Borneo *Devi Karolita, Ariesta Lestari, Misita Anwar, Betrixia Barbara, Fengky Florante Adji, Ferry Saputra, Rafael Aryapati Soebagijo* *Indonesia, Australia* •Human-in-the-Loop Generative AI for Explainable Insurance Decision Support *Arianna Anniciello, Simona Fioretto, Elio Masciari, Enea Vincenzo Napolitano* *Italy* •Lyric-Aware DJ Track Recommendation based on Semantic Relationships *Wakana Kuwata, Hiroaki Ohshima* *Japan*	•From Connectivity to Value: Mapping Slovak IoT Business Archetypes against EU Adoption Benchmarks *Matúš Kovár, Rastislav Kulhánek* *Slovakia* •Integrating Digital Product Passports in E-commerce: An Architectural Framework for Sustainability and AI-Driven Value *Martin Tamm, Dirk Draheim, Tanel Tammet, Ingrid Pappel* *Estonia* •The Impact of Incremental eService Changes on Customer Experience: A Conceptual Review *Bela Philip Kramer, Gabriele Kotsis, Christine Strauss, Andreas Mladenow* *Austria*	•Peak Pattern Based Similarity Search for High-Dimensional Spectral Data *Kohei Asano, Yuki Toyosaka, Kai Cheng* *Japan* •Fast Approximate Aggregation with Error Guarantee Using Encoded Bit-slice Indexing *Kakeru Ito, Ryogo Maeda, Qiong Chang, Jun Miyazaki* *Japan* •Retrieving More Concrete Product Reviews by Query Rewriting with Retrieved Review Concretization *Tomoya Fukui, Takehiro Yamamoto, Takayuki Yumoto* *Japan*
14:30 – 15:00	**Coffee break**		
16:00	*Gather at the conference venue and depart to the dinner (bus provided)*		
18:00 – 21:00	**Conference Dinner, Cultural Performance and Best Paper Awards** **Yuushien Garden, Shimane**		

DAY 3, Wednesday, 10 Dec 2025

Time	
09:00 – 10:00	Registration & check in
10:00	**Departure to Izumo, Shimane** *(bus provided)*
11:00 – 12:30	**iiWAS/MoMM 2025 Confab, group discussion and Closing**
12:30 – 13:30	Lunch
13:30	**Transportation to the conference venue**