

Preliminary Program
iiWAS/MoMM 2023 Conferences
 4 6 December 2023, Denpasar – Bali, Indonesia

Day 1: Monday, 4 Dec 2023

Date	Track 1	Track 2	Track 3
08:00 – 09:00	Registration		
09:00 – 10:30	Opening iiWAS & MoMM 2023 Steering Committee Chair & Program Committee Chair Host & Local Organizing Chair Keynote Talk I The Domestication of ChatGPT by University Students Maureen Tanner, University of Cape Town, South Africa		
10:30 – 11:00	Morning coffee break		
11:00 – 12:30	iiWAS Session 1 (90")	iiWAS Session 2 (90")	MoMM session 1 (90")
	Business Data & Application 1 Paper ID# 11,12,30,43	Data Management 1 Paper ID# 90,94,96,32	Security in Mobile Environments Paper ID#: 2,3,12,14
	• How Domain Engineering Can Help to Raise Adoption Rates of Artificial Intelligence in Healthcare Markus Bertl, Toomas Klementi, Gunnar Piho, Peeter Ross, Dirk Draheim Estonia • Enhancing AI Adoption in Healthcare: A Data Strategy for Improved Heart Disease Prediction Accuracy through Deep Learning Techniques Rohan Deshamudre, Sahand Ziabari, Marc van Houten The Netherlands • WISHFUL - Website Extraction of Institutional Sources with Heterogeneous Factors and User-driven Linkage Saijal Shahania, Myra Spiliopoulou, David Broneske Germany • DISA - A Blockchain-Based Distributed Information Security Audit Lukas König, Martin Pirker, Herfried Geyer, Michael Feldmann, Simon Tjoa, Peter Kieseberg Austria	• Towards a Unified Symbolic AI Framework for Mining High Utility Itemsets Amel Hidouri, Badran Raddaoui, Said Jabbour France • RDF Data Partitioning for Efficient SPARQL Query Processing with Spark SQL Kosuke Yamasaki, Toshiyuki Amagasa Japan • A Comparative Evaluation of Additive Separability Tests for Physics-Informed Machine Learning Zi-Yu Khoo, Jonathan Sze Choong Low, Stéphane Bressan Singapore • Data integration in a multi-model environment Jaroslav Pokorný Czech Republic	• Anonymously publishing liveness signals with plausible deniability Michael Sonntag, Rene Mayrhofer, Stefan Rass Austria • Analysis of data obtained from the mobile botnet Jaroslaw Kobiela, Piotr Urbaniec Poland • On the Impact of FFP2 Face Masks on Speaker Verification for Mobile Device Authentication David Sedlak, Rainhard Dieter Findling Austria • Blockchain-Enhanced IoHT: A Patient-Centric Internet of Healthcare Things Platform with Smart Contract-Driven Data Management Bang N. H., Khoa T. D., Triet M. N., Khanh V. H., Khiem H. G., Bao Q.T., Phuc N. T., Hieu M. D., Loc V.C.P., Quy T. L., Anh N. T., Hien Q.N., Bang L. K., Trong D.P.N., Ngan N. T. K., Son H., Luong H. H. Vietnam
12:30 – 13:30	Lunch		
13:30 – 15:00	ABC (AI-Big Data Convergence) Forum Tutorial Demystifying Large Language Models and Generative Pretrained Transformer Won Kim, Gachon University, South Korea		
15:00 – 15:30	Afternoon Coffee break		
15:30 – 17:00	ABC (AI-Big Data Convergence) Forum Panel The Future of LLMs Stéphane Bressan, National University of Singapore, Singapore (Moderator) Ngurah Agus Sanjaya ER, Udayana University, Indonesia Gabriele Kotsis, Johannes Kepler University Linz, Austria A Min Tjoa, Vienna University of Technology, Austria Dirk Draheim, Tallinn University of Technology, Estonia		
17:00 – 19:00	Welcome Reception @ Central Park, Udayana University - Sudirman Campus		

Day 2: Tuesday, 5 Dec 2023

Date	Track 1	Track 2	Track 3
08:00 – 09:00	Registration		
09:00 – 10:00	Keynote Talk II The Android Platform Security Model (and the security status of actual devices) René Mayrhofer, Johannes Kepler University Linz, Austria		
10:00 – 10:30	Morning coffee break		
10:30 – 12:00	iiWAS Session 3 (90")	iiWAS Session 4 (90")	MoMM session 2 (90")
	Deep & Machine Learning 1 Paper ID# 38,87,88,44	Generative AI Paper ID# 18,49,24,79	Mobile Computing and Wireless Sensors Paper ID# 20,30,32,35
	• Unsupervised Clustering and Explainable AI for Unveiling Behavioral Variations Across Time in Home-appliance Generated Data <i>Ramona Tolas, Raluca Portase, Camelia Lemnaru, Mihaela Dinsoreanu, Rodica Potolea</i> Romania • A Deep Learning-Based Technique to Determine Various Stages of Alzheimer's Disease From 3D Brain MRI Images <i>Shamim Ripon, Tahzib-E-Alindo, Pranto Kubi, Anika Islam, Md. Amir Hozaifa Bin Zaher</i> Bangladesh • Churn Prediction in Enterprises with High Customer Turnover <i>William Jones Beckhauser, Renato Fileto</i> Brazil • Data Fusion Performance Prophecy: A Random Forest Revelation <i>Zhongmin Zhang, Shengli Wu</i> China, UK	• Generating Fine-Grained Aspect Names from Movie Review Sentences Using Generative Language Model <i>Tomohiro Ishii, Yoshiyuki Shoji, Takehiro Yamamoto, Hiroaki Ohshima, Sumio Fujita, Martin J. Duerst</i> Japan • Reducing Human Effort in Keyphrase-Based Human-in-the-Loop Topic Models: A Method for Keyphrase Recommendations <i>Muhammad Haseeb UR Rehman Khan, Kei Wakabayashi</i> Japan • Movie Keyword Search Using Large-Scale Language Model with User-Generated Rankings and Reviews <i>Tensho Miyashita, Yoshiyuki Shoji, Sumio Fujita, Martin J. Duerst</i> Japan • Extraction News Components Methods for Fake News Correction <i>Masaya Sueyoshi, Akiyo Nadamoto</i> Japan	• Does Use of Blink Interface Affect Number of Blinks When Reading Paper Books? <i>Junpei Uchida, Tsutomu Terada, Masahiko Tsukamoto</i> Japan • A Method for Stimuli Control of Carbonated Beverages by Estimating and Reducing Carbonation Level <i>Yusuke Miyajima, Tsutomu Terada, Masahiko Tsukamoto</i> Japan • A Knee Injury Prevention System by Continuous Knee Angle Recognition using Stretch Sensors <i>Ayumi Ohnishi, Kota Kirinoe, Tsutomu Terada, Masahiko Tsukamoto</i> Japan • Ubiquitous Mobile Application for Conducting Occupational Therapy in Children with ADHD <i>Jonnathan Berrezueta-Guzman, Melissa Montalvo, Stephan Krusche</i> Germany, Ecuador
12:00 – 13:00	Lunch		
13:00 – 14:30	iiWAS Session 5 (90")	iiWAS Session 6 (90")	MoMM session 3 (90")
	Image Data & Knowledge Graph I Paper ID# 15,48,51,70	Similarity Measure & Metric I Paper ID# 42,45,50,61	Image and video processing Paper ID# 4,11,26,25
	• Buy Eye-mask Instead of Alarm Clock!: Graph-based Approach to Identify Functionally Equal Alternative Products <i>Tsukasa Hirano, Yoshiyuki Shoji, Takehiro Yamamoto, Martin J Duerst</i> Japan • Automatic Hypotheses Testing Over Heterogeneous Biological Databases using Open Knowledge Networks <i>Hasan Jamil, Stephen Krawetz, Alexander Gow</i> USA • Provenance-Aware Data Integration and Summarization Querying for Knowledge Graphs <i>Pei-Yu Hou, Jing Ao, Kara Schatz, Alexey V. Gulyuk, Yaroslava G. Yingling, Rada Chirkova</i> USA • Integration of Knowledge Bases and External Information Sources via Magic Properties and Query-driven Entity Linking <i>Yuuki Ohmori, Hiroyuki Kitagawa, Toshiyuki Amagasa, Akiyoshi Matono</i> Japan	• The Actualization of TikTok Affordances to Challenge Female Unrealistic Standards of Beauty <i>Saffiya Ebrahim, Maureen Tanner</i> South Africa • Novel Blocking Techniques and Distance Metrics for Record Linkage <i>Nachiket Deo, Sanguthevar Rajasekaran, Joyanta Basak, Ahmed Soliman, Daniel Weinberg, Rebecca Steorts</i> USA • Efficiently discovering spatial prevalent co-location patterns without distance thresholds <i>Vanha Tran, Duyhai Tran, Anhthang Le, Trongnguyen Ha</i> Vietnam • Boosting Similar Compounds Searches via Correlated Subgraph Analysis <i>Yuma Naoi, Hiroaki Shiokawa</i> Japan	• Implementation of a Video Game controlled by Pressing the Upper Arm using PPG Sensor <i>Kazuki Yoshida, Goro Mizuno, Naoki Kurata, Kazuya Murao</i> Japan • Japan Face to Face with Efficiency: Real-Time Face Recognition Pipelines on Embedded Devices <i>Philipp Hofer, Michael Roland, Philipp Schwarz, René Mayrhofer</i> Austria • Multi-camera Live Video Streaming over Wireless Network <i>Takashi Koyama, Yusuke Gotoh</i> Japan • Effects of Deep Generative AutoEncoder Based Image Compression on Face Attribute Recognition: A Comprehensive Study <i>Ahmed Baha Ben Jmaa, Dorsaf Sebai</i> France

14:30 – 15:00	Afternoon Coffee break		
15:00 – 16:00	iiWAS Session 7 (90’)	iiWAS Session 8 (90’)	iiWAS session 9 (90’)
	Business Data & Application II Paper ID# 74,76,92	Topic and Text Matching I Paper ID# 19,64,78	Data Management II & Similarity Measure & Metric II Paper ID# 39,80,62
	• A Label Aggregation Method using Worker Quality in Crowdsourcing <i>Nana Oota, Yu Suzuki</i> Japan • ImputAnom: Anomaly Detection Framework using Imputation Methods for Univariate Time Series <i>Tirana Noor Fatyanosa, Mahendra Data, Neni Alya Firdausanti, Israel Mendonca, Putu Hangga Nan Prayoga, Masayoshi Aritsugi</i> Indonesia, Japan • Smart Cities as Hubs: navigating the Smart City data provider’s landscape <i>Ioannis Nikolaou, Leonidas Anthopoulos</i> Greece	• A Machine Learning Approach to Enterprise Matchmaking Using Multilabel Text Classification Based on Semi-Structured Website Content <i>Jan Vellmer, Peter Mandl, Tobias Bellmann, Maximilian Balluff, Manuel Weber, Alexander Doeschl, Max-Emanuel Keller</i> Germany • TraPM: A Framework for Online Pattern Matching over Trajectory Streams <i>Rina Trisminingsih, Salman Ahmed Shaikh, Toshiyuki Amagasa, Hiroyuki Kitagawa, Akiyoshi Matono</i> Japan • Attention Based Stopword Generation for Neural Network based Text Processing <i>Yuki Kuwabara, Yu Suzuki</i> Japan	• Efficient Similarity Searches for Multivariate Time Series: A Hash-based Approach <i>Yuma Yasuda, Hiroaki Shiokawa</i> Japan • Character Entity Recognition using Hybrid Binary-Particle Swarm Optimization and Conditional Random Field on Balinese Folklore Text <i>I Made Satria Bimantara, Ngurah Agus Sanjaya ER, Diana Purwitasari</i> Indonesia • Observing the patterns of correlation while drill-down <i>Sijo Arakkal Peious, Rahul Sharma, Minakshi Kaushik, Mehtab Shahin, Dirk Draheim</i> Estonia
	Free time		
19:00 – 21:30	Conference Dinner & Best Paper Award @ Breeze Garden, Mercure Sanur Resort Bali Jl. Mertasari, Sanur, South Denpasar, Bali		

Day 3: Wednesday, 6 Dec 2023

Date	Track 1	Track 2	Track 3
08:00 – 09:00	Registration		
09:00 – 10:30	iiWAS Session 10 (90’')	iiWAS session 11 (90’')	iiWAS Session 12 (90’')
	Image Data & Knowledge Graph II 4 papers Paper ID# 82,63,75,86	Deep & Machine Learning II and Topic & Text Matching II 4 papers Paper ID# 65,77,10,69	Recommendation Systems 4 papers Paper ID# 20,28,59,35
	• Enhancing Taxi Placement in Urban Areas using Dominating Set Algorithm with Node and Edge Weights <i>Sonia Khetarpaul, Dolly Sharma, Somya Ranjan, Saurabh Mishra</i> India • Fast Correlated DNA Subsequence Search via Graph-based Representation <i>Ryuichi Yagi, Yuma Naoi, Hiroaki Shiokawa</i> Japan • Efficient Maximum k-plex Search via Selective Branch-and-Bound <i>Shohei Matsugu, Hiroaki Shiokawa</i> Japan • Deep image analysis for microalgae identification <i>Jeffrey Soar, Oh Shu Lih, Loh Hui Wen, Aletha Ward, Ekta Sharma, Ravinesh C. Deo, Prabal Datta Barua, Ru-San Tan, Eliezer Rinen, U Rajendra Acharya</i> Australia, Singapore	• Celestial Machine Learning: Discovering the Planarity, Heliocentricity, and Orbital Equation of Mars with AI Feynman <i>Zi-Yu Khoo, Gokul Rajiv, Abel Yang, Jonathan Sze Choong Low, Stéphane Bressan</i> Singapore • Deep Learning Based Emotion Recognition Using EEG Signal <i>Shamim Ripon, Tashfia Choudhury, Shabrina Akter Shara, Sharmin Sharkar Rima, Shaolin Zahan Aume</i> Bangladesh • Digital Index Card Creation and Management for Memorizing What You See on the Web <i>Yuna Saka, Yoshiyuki Shoji, Hiroaki Ohshima, Kouzou Ohara</i> Japan • Multitask, Cross-lingual Recipe Classification using Joint Fine-Tuning Mechanisms <i>Vlad-Andrei Negru, Camelia Lemnaru, Rodica Potolea</i> Romania	• Taste Representation Learning Toward Food Recommendation Balancing Curiosity and Comfort <i>Yuto Sakai, Qiang Ma</i> Japan • Tag2Seq: Enhancing Session-based Recommender Systems with Tag-based LSTM <i>Yahya Bougteb, Elyazid Akachar, Brahim Ouhbi, Frikh Bouchra</i> Morocco • ClinLearning: An Online Clinical Tutoring and Crowdsourced Treatment Recommendation System <i>Hasan Jamil, Tyler Bland, Evanthia Bernitsas, Nancy Car, Derrick Phillips, Farjahan Shawon, Berhane Seyoum, Alexander Gow</i> USA • Using Derived Sequential Pattern Mining for E-Commerce Recommendations in Multiple Sources <i>Ritu Chaturvedi, Christie I. Ezeife, Md. Burhan Uddin</i> Canada
10:30 – 11:00	Morning coffee break		
	Track 1	Track 3	
11:00 – 12:00	iiWAS Session 13 (60’')	MoMM session 4 (60’')	
	Business Data & Application III 3 papers Paper ID# 93,46,68	Security in mobile environments & Mobile Computing and Wireless Sensors & Image and video processing 3 papers Paper ID# 21,29,10	
	• Revolutionizing Real Estate: A Blockchain, NFT, and IPFS Multi-Platform Approach <i>Hung N. N., Khoa T. Dang, Triet M. N., Hong K. Vo, Bao Q. Tran, Khiem H. G., Phuc N. T., Hieu M. D., Loc V. C. P., Quy T. L., Anh N. T., Hien Q. N., Bang L. K., Nguyen D. P. T., Ngan N. T. K., Son X. H., and Huong H. L.</i> Vietnam • Analysing Online Review by Bank Employees: A Predictive Analytics Approach <i>Dominic Desmond Anil Abraham Emmanuel, James Tan Swee Chuan, Priyanka Gupta</i> Singapore • Optimizing Visit Booking at CERN: A Drools-Based Approach <i>Alberto Cortina Eduarte, Cristian Schusztzer, Jacome Costales Ballesteros, Jose Antonio Garcia Fuentes, Marcin Mazurek</i> Switzerland	• Federated Learning for Collaborative Cybersecurity of Distributed Healthcare <i>Svetlana Boudko</i> Norway • Wearable Device Supporting Light/Dark Adaptation <i>Hiroki Sato, Ayumi Ohnishi, Tsutomu Terada, Masahiko Tsukamoto</i> Japan • Immerscape: Supporting the creation of Immersive Soundscapes by users in Cultural Heritage contexts <i>Carolina Ferreira, Sofia Cavaco, Armanda Rodrigues, Nuno Correia</i> Portugal	
12:00 – 12:30	Closing (30’')		
12:30 – 13:30	Lunch		