PRICAI-2023 Technical Program

Wednesday, 15th November 2023

	PKAW 2023 (Workshop #1, Virtual Workshop) Mutiara 2&3	LLM4KG (Tutorial #1 Part 1) Mutiara 10	IMLH (Tutorial #2 Part 1) Mutiara 12	Al4Environment (Workshop #2) Mutiara 6&7	
9:00 - 10:30 (GMT+7)	Keynote 1: "Game Theory and Machine Learning for Addressing Societal Challenges: From Theory to Real-World Impact" Prof. Fei Fang "Automated Cattle Behavior Classification using Wearable Sensors and Machine Learning Approach" Niken Prasasti Martono, Rie Sawado, Itoko Nonaka, Fuminori Terada, Hayato Ohwada "An Assessment of the Influence of Interaction and Recommendation Approaches on the Formation of Information Filter Bubbles" Zihan Yuan, Weihua Li, Quan Bai	Large Language Models and RDF-based Knowledge Graphs: Bridging the Gap (LLM4KG) Adrian Gschwend	Interpretable AI/ML Models for High-stake tasks with Human-in-the-loop (IMLH) Prof. Boris Kovalerchuk	Session Chair: M A Hakim Newton (University of Newcastle) 9:00-9:20 "Effective Water Source Monitoring (position paper)" Kewen Wang, Zhe Wang, Jarrod Trevathan, Kaile Su 9:20-9:40 "Water Quality Monitoring with Artificial Intelligence - A Review on Recent Research" Md Khaled Ben Islam, M. A. Hakim Newton, Jarrod Trevathan, Abdul Sattar, 9:40-10:00 10:10-based interoperable smart aquaculture system for water quality monitoring" Tanzima Azad, Jarrod Trevathan, M A Hakim Newton, Abdul Sattar, 10:00-10:20 "Listening for Frogs in Vulnerable Aquatic Environments" Linda Main 10:20-10:40 "Federated Learning and Fog Computing for Remote Monitoring Applications" Blake Rawlins	
30 mins			Morning Tea		
	PKAW 2023 (Workshop #1, Virtual Workshop) Mutiara 2&3	LLM4KG (Tutorial #1 Part 2) Mutiara 10	IMLH (Tutorial #2 Part 2) Mutiara 12	Al4Environment (Workshop #2) Mutiara 6&7	
	"Predicting Peak Demand Days for Asthma-Related Emergency Hospitalisations: A Machine Learning Approach" Rashi Bhalla, Farhaan Mirza, M. Asif Naeem, Amy Chan "Exploring the Potential of Image Overlay in Self-Supervised Learning: A Study on SimSiam Networks and Strategies for Preventing Model Collapse" Li Xiao, Weihua Li, Quan Bai, Minh Nguyen "LexiFusedNet: A Unified Approach for Imbalanced Short-text Classification using Lexicon-based Feature Extraction, Transfer Learning and One Class Classifiers" Saugata Bose, Guoxin Su "Balanced Graph Structure Information for Brain Disease Detection" Falih Febrinanto, Mujie Liu, Feng Xia	Large Language Models and RDF-based Knowledge Graphs: Bridging the Gap (LLM4KG) Adrian Gschwend	Interpretable AI/ML Models for High-stake tasks with Human-in-the-loop (IMLH) Prof. Boris Kovalerchuk	Session Chair: Ashfaqur Rahman (CSIRO) 11:00-11:20 "Deploying Gaussian Processes to Predict Avocado Price Fluctuations" Rishav Ranjan, Spandan Rout, Digvijay Jagtap 11:20-11:40 "From Forest to Frame: Building a Koala Dataset and its Impact on Recognition Algorithms" Wangchi Xing, Jun Zhou, Wee Lum Tan, Douglas Kerlin, Guy Castley, Jarrod Trevathan 11:40-12:200 "Otata-driven modelling of the influence of streamflow on prawn catch in northern Australia" Quanxi Shao, Simon Kitson, Rob Kenyon, Justin Hughes, Cuan Petheram, Louie Zhang 12:00-12:20 "Deep learning water resource predictions across Australia incorporating hydrogeological knowledge" Stephanie Clark, Jasmine Jaffres	
12:30 - 14:00			Lunch		

	PKAW 2023 (Workshop #1, Virtual Workshop) Mutiara 2&3 OBADI (Tutorial #3 Part 1) Mutiara 10		ISA (Tutorial #4 Part 1) Mutiara 12	COMPSOC (Tutorial #5 Part 1) Mutiara 6&7	
14:00 - 15:30 (GMT+7)	Keynote 2: "Knowledge Structurization over Texts: Neural Information Extraction based Approaches and Recent Advances" Prof. Xiang Zhaoa "Information Gerrymandering in Elections" Xiaoxue Liu, Shohei Kato, Fenghui Ren, Guoxin Su, Minjie Zhang, Wen Gu "BoCB: Performance Benchmarking by Analysing Impacts of Cloud Platforms on Consortium Blockchain" Zhiqiang Huang, Saurabh Grag, Wenli Yang, Ankur Lohachab, Muhammad Bilal Amin, Byeong Kang	Ontology Based Data Access and Data Independence (OBDADI) Prof Dr. David Toman, Dr. Grant Weddell	Instance Space Analysis for Rigorous and Insightful Algorithm Testing (ISA) Kate Smith-Miles, Mario Andres Munoz	Computational Social Choice Competition (COMPSOC) A/Prof Rafik Hadfi	
30 mins	Afternoon Tea				
	PKAW 2023 (Workshop #1, Virtual Workshop) Mutiara 2&3	OBADI (Tutorial #3 Part 2) Mutiara 10	ISA (Tutorial #4 Part 2) Mutiara 12	COMPSOC (Tutorial #5 Part 2) Mutiara 6&7	
16:00 - 17:30 (GMT+7)	"Blockchain as a Collaborative Technology - Case Studies in the Real Estate Sector in Vietnam" Kha Nguyen Hoang, Trong Nguyen Duong Phu, Triet Nguyen Minh, Huong Hoang Luong, Khoa Tran Dang, Khiem Huynh, Phuc Nguyen Trong, Hieu Doan Minh, Quy Lu, Nguyen The Anh, Ngan Nguyen Thi Kim, Hien Nguyen Quang, Bang Le Khanh, Bao Tran Quoc, Khanh Vo Hong "Discovering maximal high utility co-location patterns from spatial data" Vanha Tran "Indonesian Forest Fire Data Clustering using Spatiotemporal Data Using Grid Density-Based Clustering Algorithm" Devi Fitrianah, Hisyam Fahmi, Ade Putera Kemala, Muhammad Edo Syahputra	Ontology Based Data Access and Data Independence (OBDADI) Prof Dr. David Toman, Dr. Grant Weddell	Instance Space Analysis for Rigorous and Insightful Algorithm Testing (ISA) Kate Smith-Miles, Mario Andres Munoz	Computational Social Choice Competition (COMPSOC) A/Prof Rafik Hadfi	

Thursday, 16th November 2023

	PRIWAKG-2023 (Workshop #3) Mutiara 2&3	Q2AI (Tutorial #6 Part 1) Mutiara 10	RL4DB (Tutorial #7 Part 1) Mutiara 12	DemocrAl2023 Winter (Workshop #4) Mutiara 6&7	LAI (Tutorial #10 Part 1) Mutiara 17&18
	8:45 - 9:00: Opening Session 9:00-10:00 9:30	Q2Al: A Quick Course to Quick Al Haryo Akbarianto Wibowo	Reinforcement Learning for Digital Business (RL4DB) Edwin Simjaya, Adhi Setiawan	Session Chair: Dr. Jawad Haqbeen (Kyoto University) 9:00-9:30 Welcome & Opening Remarks: Workshop Orgnizers 9:30-10:30 Invited Talk 1 "Data quality as a prerequisite for the success and sustainability of emerging technologies, business, and society: no data quality, no party" Prof. Anastsaijia Nikiforova (University of Tartu, Estonia)	Current Interfaces of Logic and AI: the case of natural language {LAI Johan van Benthem, Fenrong Liu
30 mins	Morning Tea				
(GMT+7)	PRIWAKG-2023 (Workshop #3) Mutiara 2&3	Q2AI (Tutorial #6 Part 2) Mutiara 10	RL4DB (Tutorial #7 Part 2) Mutiara 12	DemocrAl2023 Winter (Workshop #4) Mutiara 6&7	LAI (Tutorial #10 Part 2) Mutiara 17&18
	11::00-12:00 "Choosing an Ontology for Re-use: Understanding the Standards Landscape" Mike Bennett (Hypercube Limited, United Kingdom) 12:00-12:30 Use-Case "Modelling Autonomous Vehicle Driving information for Automatic Compliance Checking" Hanif Bhuiyan (Monash Data Futures Institute, Monash University)	Q2Al: A Quick Course to Quick Al Haryo Akbarianto Wibowo	Reinforcement Learning for Digital Business (RL4DB) Edwin Simjaya, Adhi Setiawan	Session Chair: Dr. Shun Okuhara (Mie University) 11:00-12:00 Invited Talk 2: "Research on the development of an Al-based decision support system for elderly people with cognitive decline" Prof. Haruka Murai (Nihon Pharmaceutical University) 12:00-12:30 "Investigation of Opinion Changes in Debate Judging Using Agents" Shun Okuhara, Takayuki Ito, Masanori Takagi	Current Interfaces of Logic and AI: the case of natural language (LAI Johan van Benthem, Fenrong Liu
12:30 - 14:00 (GMT+7)			Lunch		

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	PRIWAKG-2023 (Workshop #3) Mutiara 2&3	AIEDU (Tutorial #8 Part 1) Mutiara 10	AlpaRa (Tutorial #9 Part 1) Mutiara 12	DemocrAl2023 Winter (Workshop #4) Mutiara 6&7
14:00 - 15:30 (GMT+7)	13:30-14:30 "Harnessing the power of Semantics and Knowledge Graphs in IoT Data" Sanju Tiwari (BVICAM, New Delhi, India & Universidad Autonoma de Tamaulipas, Mexico) 14:30-15:00 14:30-15:00 18:6-Case "Strengthening Data Governance and Trust: The Role of Semantic Web Technologies in the Age of Internet of Things and Large Language Models" Tek Raj Chhehri (Center for Artificial Intelligence (AI) Research Nepal) 15:00 - 15:30 Use-Case "Rapid Knowledge Graphs: Knowledge Graph Extraction and Management (Omar Qawasmeh, Elena Manishina, Tiziano Flati, Fran,cois Bangui, and Benjamin Mathiesen)" Omar Qawasmeh (Hybrid Intelligence, Capgemini Engineering, France)	Applications of Generative AI tools in Higher Education (AIEDU) Prof Eric Tsui	Unleashing the Power of Large Language Models: A Comprehensive Tutorial on Training LLM using Alpaca + LoRA (AlpaRa) Edwin Simjaya, Adhi Setiawan, Shinta Roudlotul Hanafia	Session Chair: Dr. Shun Okuhara (Mie University) 14:00-14:30 "An Anthropology of Everyday Al Education in Indonesian Islam: A PhD Research Proposal" Daphne Wong-A-Foe 14:30-15:00 "Assessing Conversational Agent Impact on Conversation Development and Changing People's Sentiments Towards Certain Entities: A Case Study with Warring Nations" Jawad Haqbeen, Sofia Sahab, Takayuki Ito 15:00-15:30 "Towards Hyperdemocracy: An Multiagent Discussion System" Takayuki Ito, Rafik Hadfi, Jawad Ahmad Haqbeen, Sofia Sahab
30 mins			II Afternoon Tea	11
	PRIWAKG-2023 (Workshop #3) Mutiara 2&3	AIEDU(Tutorial #8 Part 2) Mutiara 10	AlpaRa (Tutorial #9 Part 2) Mutiara 12	DemocrAl2023 Winter (Workshop #4) Mutiara 6&7
16:00 - 17:30 (GMT+7)	16:00-16:30 Demo "Graphologi Taxonomy and Ontology Management (Paul Appleby, Rawinder Singh, and Madi Solomon)" Paul Appleby (Graphifi Ltd, England) 16:30-17:00 Demo "AllegroGraph - Chomsky chatbot based on Chomsky knowledge graph and	Applications of Generative AI tools in Higher Education (AIEDU)		Session Chair: Dr. Shiyao Ding (Kyoto University) 16:00-17:00 Tutorial "Towards Hyperdemocracy: Al-powered Crowd Discussion Support"