

Session Details

Session 1 – Research Track Paper Presentations (5 papers)

Theme: Data Mining and Analytics

Session Chair: Dr Thirunavukarasu (Thiru) Balasubramaniam

No. 6 - Identifying individual anchoring regions by mining public transport smart card data.

Megan Born, Mark Reynolds and Rachel Cardell-Oliver

No. 7 - Enhanced Carbon Credits Price Prediction with Multiple Influencing Market Factors

Qingwen Zeng, Hanlin Xu, Nanjun Xu, Junbin Gao and Huaming Chen

No. 12 - PrivCQ: Trading Multi-dimensional Conditional Queries under Personalised Local Differential Privacy

Mengxiao Zhang, Weidong Li, Yiping Liu, Bakh Khoussainov and Jiamou Liu

No. 18 - NetDetective: Dynamic Cyber Situational Awareness

Ben Luo, Alexander Chambers and Hung Nguyen

No. 24 - AstroArm - Robotic Hand Simulation Environment for Satellite Servicing

Eirini Panteli, Belinda Chiera and Josh Chopin

Session 2 – Application Track Paper Presentations (5 papers)

Session Chair: Dr Araz Nasirian

No. 14 - Effective Water Temperature Forecasting with Transformer

Richard Reynaldo Wironoto Susilo, Yanchang Zhao, Reena Kapoor, Devesh Bhogal, Peter Toscas and Klaus Joehnk

No. 19 - Glucose Forecasting through Physiological Modelling

Dane Lyttinen, Ivana Sequira-Bisson, Jennifer Miles-Chan and Yun Sing Koh

No. 25 - Enhancing AI Safety in the Public Sector: A Field Experiment on Guardrails Leveraging LLMs for State Government Employees

Yue Wang, Duoyi Zhang, Xiangrui Kong, Marco Fahmi and Richi Nayak

No. 40 - Classifying Maritime Vessel Behaviour From AIS Using Statistical Features

James Cormack, Matthew Roughan and Hung Nguyen

No. 57 - Actively evaluating and learning the distinctions that matter: Vaccine safety signal detection from emergency triage notes

Sedigh Khademi, Christopher Palmer, Muhammad Javed, Hazel Clothier, Jim Buttery, Gerado Luis Dimaguil and Jim Black

Session 3 – Research Track Paper Presentations (4 papers)

Theme: Machine Learning

Session Chair: Dr Thirunavukarasu (Thiru) Balasubramaniam

No. 10 - Multi-choice explanations for feature and parameter importance

Daniel Fryer, Hien Nguyen, Inga Strumke and David Lowing

No. 11 - GRADIOOD: A FRAMEWORK FOR OUT-OF-DISTRIBUTION SAMPLE IDENTIFICATION USING SIGNED GRADIENTS FOR ROBUST MODELS

Dalha Alotaibi, Jianlong Zhou, Yifei Dong and Fang Chen

No. 20 - MP-PINN: A Multi-Phase Physics-Informed Neural Network for Epidemic Forecasting

Thang Nguyen, Dung Nguyen, Kha Pham and Truyen Tran

No. 26 - Robust Weed Detection with Evidential Neural Network-based Uncertainty Quantification

Jichao Kan, Zhidong Li, Jianlong Zhou and Fang Chen

Session 4 – Research Track Paper Presentations (5 papers)

Theme: Deep Learning and LLMs

Session Chair: Dr Asara Senaratne

No. 5 - Generative Agents as Reliable Proxies for Human Evaluation of AI-Generated Content

Thanh Vu, Richi Nayak and Thirunavukarasu Balasubramaniam

No. 17 - A Novel Vision-based Transformers for Seizure Detection with Multi-biosignals

Sheng Wong, Scott Barnett, Shobi Sivathamboo, Piero Perucca, Patrick Kwan, Zongyuan Ge, Levin Kuhlmann and Terence J. O'Brien

No. 59 - ForCM: Forest Cover Mapping from Multispectral Sentinel-2 Image by Integrating Deep Learning with Object-Based Image Analysis

Maisha Haque, Israt Jahan Ayshi, Sadaf M. Anis, Nahian Tasnim, Mithila Moontaha, Md. Sabbir Ahmed, Muhammad Iqbal Hossain, Mohammad Zavid Parvez, Subrata Chakraborty, Biswajeet Pradhan and Biswajit Banik

No. 71 - SecEval: A Security Evaluation Dataset for Large Language Models*

Huining Cui and Wei Liu

No. 73 - Topic Models Meet LLMs: Generating Insightful Questions from User Feedback

Duoyi Zhang, Yue Wang, Richi Nayak and Md Abul Bashar