

AusDM'24 Doctorial Consortium Program

	Paper Title / Author List	Speaker
2 mins	Session Briefing	Session Chair
14:32 14:40	Freight Origin-Destination Estimation via Video Analytics and Data Fusion <i>Shihan Xu, Chris McCarthy, Prem Prakash Jayaraman, Hadi</i>	Shihan Xu
14:40 14:48	Improving Drug Response Prediction with Unsupervised Integration of Multi-Omics Data <i>Sultan Alsubaie, Weijia Zhang and Pablo Moscato</i>	Sultan Alsubaie
14:48 14:56	Automatic Electricity Price Forecasting using Artificial Intelligence Techniques, in the presence of uncertainties <i>Tianshu Bao, Dana Rezazadegan, Nariman Mahdavi and Chris McCarthy</i>	Tianshu Bao
14:56 15:04	PPG Privacy Leakage: GAN-Based Federated Reconstruction Attack <i>Jiaheng Wei, Chao Chen and Kok-Leong Ong</i>	Jiaheng Wei
15:04 15:12	Investigating the Spoofing Potential of PPG-to-ECG Signal Transformation with Diffusion Models in Biometric Authentication <i>Bonan Zhang and Chao Chen</i>	Bonan Zhang
15:12 15:20	The Interplay Between MAHRL Properties and Environment Features for Increased Policy Generalisation Capabilities <i>Elizabeth Camilleri, Laurence Park and Oliver Obst</i>	Elizabeth Camilleri
15:20 15:30	Break	
15:30 15:38	Integrated Substitution and Transshipment Policies to Improve the Blood Supply Chain Performance <i>Shahrazad Valizadeh, Babak Abbasi and Kok Leong Ong</i>	Shahrazad Valizadeh
15:38 15:46	Privacy Preservation and Optimization of Electric Vehicles <i>Mohsin Ali, Muneeb Ul Hassan and Pei Wei Tsai</i>	Mohsin Ali
15:46 15:54	Optimizing Energy Consumption and Computational Costs in Cloud Data Centers <i>Chang Wu and Pei-Wei Tsai</i>	Chang Wu
15:54 16:02	Electricity Market Forecasting: Advanced Long-Short Range Predictions Through Integrated Transformer, Mamba, and Diffusion Model <i>Fusen Guo, Jun Zhang and Huadong Mo</i>	Fusen Guo
16:02 16:10	Optimal Control of Battery Energy Storage Systems in Cyber-Physical-Social Systems Using Deep Reinforcement Learning <i>Alaa Selim, Huadong Mo, Hemanshu Pota and Daoyi Dong</i>	Alaa Selim
16:10 16:18	Semantic Communication in Orbit – Addressing the Space-to-Ground Transmission Bottleneck for Earth Observation Data <i>Sam Hall, Prem Prakash Jayaraman and Peter Moar</i>	Sam Hall
16:18 16:26	Time Series Analysis Based on Energy Distribution <i>Zhongju Wang, Huadong Mo and Daoyi Dong</i>	TBC