

Attendees registering for the PhD workshop are welcome to attend keynotes, tutorials, panels, as well as encore track sessions.

| Time | ADC Day 1 (1st November) Venue: Melbourne Connect, Level 7, Manhari Room |
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| 8:45-9:00 | ADC Opening |
| 9:00-10:00 | Keynote 1: Speaker: Geoff Webb Title: Large Language Models: Risks and Benefits |
| 10:00-10:30 | Morning Tea |
| 10:30-12:00 | Tutorial 1: Speaker: Prof Shirui Pan, Xin Zheng Title: Towards Data-centric Graph Machine Learning |
| 12:00-13:00 | Lunch |
| 13:00-15:00 | Tutorial 2: Speaker: A/Prof Tongliang Liu Title: Detect Label Errors in Datasets |
| 15:00-15:30 | Afternoon Tea |
| 15:30-17:00 | Tutorial 3: Speaker: Dr Xin Yu, Dr Liang Zheng, Dr Zijian Wang Title: Data-centric Computer Vision: Problems, Good Practices and Preliminary Solutions |
| 17:00-18:00 | Panel Discussion: Speaker: Prof Shirui Pan, A/Prof Tongliang Liu, Dr Xin Yu, Dr Liang Zheng, Dr Zijian Wang Title: Data-centric Artificial Intelligence |

| Time | ADC Day 2 (2nd November) Venue: Melbourne Connect, Level 7, Manhari Room |
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| 9:00-10:00 | <p>Keynote 2:</p> <p>Speaker: Ling Chen</p> <p>Title: How Do Large Language Models Capture the Ever-changing World Knowledge? A Review of Recent Advances</p> |
| 10:00-10:30 | Morning Tea |
| 10:30-12:00 | <p>Tutorial 4:</p> <p>Speaker: A/Prof Yang Cao</p> <p>Title: Towards Trustworthy Data Markets: Recent Advances and Open Problems</p> |
| 12:00-13:00 | Lunch |
| 13:00-14:30 | <p>Tutorial 5:</p> <p>Speaker: Dr Bang Wu, He Zhang</p> <p>Title: Privacy Challenges in Graph Neural Networks in MLaaS</p> |
| 14:30-15:00 | Afternoon Tea |
| 15:00-17:00 | <p>Lightening Talks of Encore Papers:</p> <ul style="list-style-type: none"> • Hierarchical Core Decomposition in Parallel: From Construction to Subgraph Search • Efficient Maximal Biclique Enumeration for Large Sparse Bipartite Graphs • TxAllo: Dynamic Transaction Allocation in Sharded Blockchain Systems • Temporal and Heterogeneous Graph Neural Network for Financial Time Series Prediction • Hop-Constrained s-t Simple Path Enumeration on Large Dynamic Graphs • Demystifying Uneven Vulnerability of Link Stealing Attacks against Graph Neural Networks • MAMDR: A Model Agnostic Learning Framework for Multi-Domain Recommendation • Committed Private Information Retrieval • Diversified Top-k Route Planning in Road Network • Efficiently Learning Spatial Indices • Manipulating Federated Recommender Systems: Poisoning with Synthetic Users and Its Countermeasures • Semi-decentralized Federated Ego Graph Learning for Recommendation • Towards Graph-level Anomaly Detection via Deep Evolutionary Mapping • Ultrafast Euclidean Shortest Path Computation Using Hub Labeling • Efficient Object Search in Game Maps • Beyond Pairwise Reasoning in Multi-Agent Path Finding • Group-based Fraud Detection Network on e-Commerce Platforms • Migrating Social Event Recommendation Over Microblogs • TimeClave: Oblivious In-enclave Time series Processing System • Equitable Public Bus Network Optimization for Social Good: A Case Study of |

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| | Singapore <ul style="list-style-type: none"> • Few-Shot Semantic Relation Prediction Across Heterogeneous Graphs • Cross-heterogeneity Graph Few-shot Learning • Representative Routes Discovery From Massive Trajectories <p><i>*NOTE: <u>Each oral presentation has 5 mins.</u></i></p> |
| 17:00-18:30 | Poster Session |
| 19:00 | ADC Banquet |

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| Time | ADC Day 3 (3rd November) Venue: Melbourne Connect, Level 7, Manhari Room |
| 9:00-10:00 | <p>Keynote 3:</p> <p>Speaker: Gao Cong</p> <p>Title: Empowering Database Systems with Machine Learning</p> |
| 10:00-10:30 | Morning Tea |
| 10:30-12:30 | <p>Research Track Papers: Query Processing and Optimization</p> <ul style="list-style-type: none"> kNN Join for Dynamic High-dimensional Data: A Parallel Approach Why Query Plans are Different: An Automatic Detection and Inference System Probabilistic Reverse Top-k Query on Probabilistic Data SMST: A Saliency Map to Scanpath Transformer Take a close look at the optimization of deep kernels for non-parametric two-sample tests Multi-level Storage Optimization for Intermediate Data in AI Model Training <p><i>*NOTE: Each oral presentation has 15 mins (12 mins presentation and 3 mins Q&A).</i></p> |
| 12:00-13:00 | Lunch |
| 13:00-15:15 | <p>Research Track Papers: Artificial Intelligence in Big Data</p> <ul style="list-style-type: none"> Source-Free Adaptive Transfer for Privacy-Preserving Recommendation Balanced and Explainable Social Media Analysis for Public Health with Large Language Models Towards reliable and efficient vegetation segmentation for Australian wheat data analysis Batch Level Distributed Training of LSTM for Electricity Price Forecasting Health Status Assessment for HDDs based on Bi-LSTM and N-dimensional Similarity Metric Learning Implicit Sentiment for Explainable Review-Based Recommendation Prompt-based Effective Input Reformulation for Legal Case Retrieval Enhancing Night-to-Day Image Translation with Semantic Prior and Reference Image Guidance Surveying the Landscape: Compound Methods for Aspect-Based Sentiment Analysis <p><i>*NOTE: Each oral presentation has 15 mins (12 mins presentation and 3 mins Q&A).</i></p> |
| 15:15-15:45 | Afternoon Tea |
| 15:45-17:45 | <p>Research Track Papers: Network and Graph Data Management</p> <ul style="list-style-type: none"> Discovering Graph Differential Dependencies Influence Maximization Revisited Discovering Densest Subgraph over Heterogeneous Information Networks Maximum Fairness-aware (k,r)-Core Identification in Large Graphs |

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| | <ul style="list-style-type: none"> • On Directed Densest Subgraph Detection • Balanced Hop-constrained Path Enumeration in Signed Directed Graphs • An experimental evaluation of two methods on shortest distance queries over small-world graphs • IFGNN: An Individual Fairness Awareness Model for Missing Sensitive Information Graphs <p><i>*NOTE: <u>Each oral presentation has 15 mins (12 mins presentation and 3 mins Q&A).</u></i></p> |
| 17:45-18:00 | ADC Closing |