

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

Time	<b>ADC Day 1 (1<sup>st</sup> November)</b> Venue: Melbourne Connect, Level 7, Manhari Room
8:45-9:00	<b>ADC Opening</b> Speaker: Zhifeng Bao, Renata Borovica-Gajic
9:00-10:00	Keynote 1: (Session Chair: Renata Borovica-Gajic) Speaker: Geoff Webb Title: Large Language Models: Risks and Benefits
10:00-10:30	<b>Morning Tea</b>
10:30-12:00	Tutorial 1: Speaker: Prof Shirui Pan, Xin Zheng Title: Towards Data-centric Graph Machine Learning
12:00-13:00	<b>Lunch</b>
13:00-15:00	Tutorial 2: Speaker: A/Prof Tongliang Liu Title: Detect Label Errors in Datasets
15:00-15:30	<b>Afternoon Tea</b>
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	<b>ADC Day 2 (2<sup>nd</sup> November)</b> Venue: Melbourne Connect, Level 7, Manhari Room
9:00-10:00	<p>Keynote 2:</p> <p>(Session Chair: Zhifeng Bao)</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	Awards Ceremony and 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 style="text-align: center;"><b>Lightening Talks of Encore Papers:</b> (Session Chair: Shixun Huang)</p> <ul style="list-style-type: none"> <li>• Hierarchical Core Decomposition in Parallel: From Construction to Subgraph Search</li> <li>• Efficient Maximal Biclique Enumeration for Large Sparse Bipartite Graphs</li> <li>• TxAllo: Dynamic Transaction Allocation in Sharded Blockchain Systems</li> <li>• Temporal and Heterogeneous Graph Neural Network for Financial Time Series Prediction</li> <li>• Hop-Constrained s-t Simple Path Enumeration on Large Dynamic Graphs</li> <li>• Demystifying Uneven Vulnerability of Link Stealing Attacks against Graph Neural Networks</li> <li>• MAMDR: A Model Agnostic Learning Framework for Multi-Domain Recommendation</li> <li>• Committed Private Information Retrieval</li> <li>• Diversified Top-k Route Planning in Road Network</li> <li>• Efficiently Learning Spatial Indices</li> <li>• Manipulating Federated Recommender Systems: Poisoning with Synthetic Users and Its Countermeasures</li> <li>• Semi-decentralized Federated Ego Graph Learning for Recommendation</li> <li>• Towards Graph-level Anomaly Detection via Deep Evolutionary Mapping</li> <li>• Ultrafast Euclidean Shortest Path Computation Using Hub Labeling</li> <li>• Efficient Object Search in Game Maps</li> <li>• Beyond Pairwise Reasoning in Multi-Agent Path Finding</li> <li>• Group-based Fraud Detection Network on e-Commerce Platforms</li> <li>• Migrating Social Event Recommendation Over Microblogs</li> <li>• TimeClave: Oblivious In-enclave Time series Processing System</li> <li>• Equitable Public Bus Network Optimization for Social Good: A Case Study of Singapore</li> <li>• Few-Shot Semantic Relation Prediction Across Heterogeneous Graphs</li> <li>• Cross-heterogeneity Graph Few-shot Learning</li> <li>• Representative Routes Discovery From Massive Trajectories</li> </ul> <p><i>*NOTE: Each oral presentation has 5 mins.</i></p>
17:00-18:30	<p style="text-align: center;"><b>Encore Papers Poster Session</b> (Session Chair: Junhao Gan)</p>
19:00	<p style="text-align: center;"><b>ADC Banquet</b> Venue: East Imperial (323 Rathdowne St, Carlton VIC 3053)</p>

Time	<b>ADC Day 3 (3<sup>rd</sup> November)</b> Venue: Melbourne Connect, Level 7, Manhari Room
9:00-10:00	<p>Keynote 3: (Session Chair: Zhifeng Bao) Speaker: Gao Cong Title: Empowering Database Systems with Machine Learning</p>
10:00-10:30	Morning Tea
10:30-12:00	<p>Research Track Papers: Query Processing and Optimization (Session Chair: Linzhe Cai)</p> <ul style="list-style-type: none"> <li>• kNN Join for Dynamic High-dimensional Data: A Parallel Approach</li> <li>• Why Query Plans are Different: An Automatic Detection and Inference System</li> <li>• Probabilistic Reverse Top-k Query on Probabilistic Data</li> <li>• SMST: A Saliency Map to Scanpath Transformer</li> <li>• Take a close look at the optimization of deep kernels for non-parametric two-sample tests</li> <li>• Multi-level Storage Optimization for Intermediate Data in AI Model Training</li> </ul> <p><i>*NOTE: Each oral presentation has 15 mins (12 mins presentation and 3 mins Q&amp;A).</i></p>
12:00-13:00	Lunch
13:00-15:00	<p>Research Track Papers: Artificial Intelligence in Big Data (Session Chair: Tingting Wang)</p> <ul style="list-style-type: none"> <li>• Balanced and Explainable Social Media Analysis for Public Health with Large Language Models</li> <li>• Towards Reliable and Efficient Vegetation Segmentation for Australian Wheat Data Analysis</li> <li>• Batch Level Distributed Training of LSTM for Electricity Price Forecasting</li> <li>• Health Status Assessment for HDDs based on Bi-LSTM and N-dimensional Similarity Metric</li> <li>• Learning Implicit Sentiment for Explainable Review-Based Recommendation</li> <li>• Prompt-based Effective Input Reformulation for Legal Case Retrieval</li> <li>• Enhancing Night-to-Day Image Translation with Semantic Prior and Reference Image Guidance</li> <li>• Surveying the Landscape: Compound Methods for Aspect-Based Sentiment Analysis</li> </ul> <p><i>*NOTE: Each oral presentation has 15 mins (12 mins presentation and 3 mins Q&amp;A).</i></p>
15:00-15:30	Afternoon Tea

15:30-17:30	<p style="text-align: center;"><b>Research Track Papers: Network and Graph Data Management</b> (Session Chair: Hai Lan)</p> <ul style="list-style-type: none"> <li>• <b>Discovering Graph Differential Dependencies</b></li> <li>• <b>Influence Maximization Revisited</b></li> <li>• <b>Discovering Densest Subgraph over Heterogeneous Information Networks</b></li> <li>• <b>Maximum Fairness-aware (k,r)-Core Identification in Large Graphs</b></li> <li>• <b>On Directed Densest Subgraph Detection</b></li> <li>• <b>Balanced Hop-constrained Path Enumeration in Signed Directed Graphs</b></li> <li>• <b>An Experimental Evaluation of Two Methods on Shortest Distance Queries over Small-world Graphs</b></li> <li>• <b>IFGNN: An Individual Fairness Awareness Model for Missing Sensitive Information Graphs</b></li> </ul> <p><i>*NOTE: Each oral presentation has 15 mins (12 mins presentation and 3 mins Q&amp;A).</i></p>
17:30-18:30	<p style="text-align: center;"><b>Shepherding Track Papers:</b> (Session Chair: Daomin Ji)</p> <ul style="list-style-type: none"> <li>• <b>An Empirical Analysis of Just-in-Time Compilation in Modern Databases</b></li> <li>• <b>Optimizing Taxi Route Planning Based on Taxi Trajectory Data Analysis</b></li> <li>• <b>Efficient Maximum Relative Fair Clique Computation in Attributed Graphs</b></li> <li>• <b>Relational Expressions for Data Transformation and Computation</b></li> </ul> <p><i>*NOTE: Each oral presentation has 15 mins (12 mins presentation and 3 mins Q&amp;A).</i></p>
18:30-18:45	<b>ADC Closing</b>