

Time	<b>ADC Day 1 (2<sup>nd</sup> September)</b> Venue: Design Studio, Level 5, Ainsworth Building (J17), Kensington Campus, UNSW
10:00-12:00	<b>ADC Session 1</b> <ul style="list-style-type: none"> <li>Yehong Xu, Mengxuan Zhang, Ruizhong Wu, Lei Li and Xiaofang Zhou A Top-Down Scheme for Coverage Centrality Queries on Road Networks</li> <li>Nimish Ukey, Zhengyi Yang, Guangjian Zhang, Boge Liu, Binghao Li and Wenjie Zhang Efficient kNN Join over Dynamic High-dimensional Data</li> <li>Dolly Sharma, Sonia Khetarpaul, Ambreesh Parthsarthy, Mohit Kumar S and Sparsh Agarwalla Performance prediction of songs on online music platforms</li> <li>Oded Shmueli, Database States Exhibiting Tree Projection Necessity</li> </ul>
12:00-13:00	<b>Lunch</b>
13:00-15:00	<b>ADC Session 2</b> <ul style="list-style-type: none"> <li>Xi Chen, Zhi Chen, Zijian Wang, Ruihong Qiu and Yadan Luo FluMA: An Intelligent Platform for Influenza Monitoring and Analysis</li> <li>Sonia Khetarpaul, Dolly Sharma, Jackson I. Jose and Mohith Saragur Real-time Detection and Visualization of Traffic Conditions by Mining Twitter Data</li> <li>Lakshit Sama and Hua Wang Enhancing system security by Intrusion Detection using Deep learning</li> <li>Josh Trueman, Hui Ma, Aaron Chen and Sven Hartmann (<i>Invited Talk</i>) Multi-objective Social Network Analysis - A Graph Database Supported NSGA-II based Approach</li> </ul>
15:00-15:30	<b>ADC Opening</b>
15:30-16:00	<b>Afternoon Tea</b>
16:00-18:00	<b>ADC Session 3</b> <ul style="list-style-type: none"> <li>Lingxiao Li, Muhammad Aamir Cheema, Mohammed Eunus Ali, Hua Lu and Huan Li Diverse Shortest Paths in Game Maps: A Comparative User Study and Experiments</li> <li>Ahmed Fahmin, Shenyi Zhang, Muhammad Aamir Cheema, Adel N. Toosi and Hesham A. Rakha Improving Eco-Friendly Routing Considering Detailed Mobility Profiles, Driving Behavior and Vehicle Type</li> <li>Ashik Mostafa Alvi, Siuly Siuly and Hua Wang Challenges in Electroencephalography Data Processing Using Machine Learning Approaches</li> <li>Hui Chen, Zhengze Li, Yan Zhou, Xiaoming Fu (<i>Invited Paper</i>) On International Chinese Education Index Ranking in A Global Perspective</li> </ul>
18:00-19:30	<b>ADC Welcome Reception</b>

Time	<b>ADC Day 2 (3<sup>rd</sup> September)</b> Venue: Design Studio, Level 5, Ainsworth Building (J17), Kensington Campus, UNSW
10:00-12:00	<b>ADC Session 4:</b> <ul style="list-style-type: none"> <li>Xia Li, Kongzhang Hao, Zhengyi Yang, Xin Cao and Wenjie Zhang Hop-constrained s-t Simple Path Enumeration in Large Uncertain Graphs</li> <li>Saurabh Mishra and Sonia Khetarpaul Predicting Taxi Hotspots in Dynamic Conditions using Graph Neural Network</li> <li>Md. Nurul Ahad Tawhid, Siuly Siuly, Kate Wang and Hua Wang Brain Data Mining Framework Involving Entropy Topography and Deep Learning</li> <li>Ashwin Sankar and Dhanalakshmi R Comparative Study of Transformer Models</li> </ul>
12:00-13:00	<b>Lunch</b>
13:00-14:30	<b>ADC Session 5:</b> <ul style="list-style-type: none"> <li>Zhaoyi Zhong, Le Sun and Sudha Subramani Personalized Arrhythmia Detection based on Lightweight Autoencoder and Variational Autoencoder</li> <li>Taslina Khanam, Siuly Siuly and Hua Wang Analysing big brain signal data for advanced Brain Computer Interface system</li> <li>Tatsuhiko Nakamori, Jun Nemoto, Hoshino Takashi and Hideyuki Kawashima Removing Performance Bottleneck of Timestamp Allocation in Two-Phase Locking based Protocol</li> </ul>
14:30-15:30	<b>Keynote 1:</b> <b>Speaker: Prof Lei Chen</b> <b>Title: Data Management for Effective and Efficient Deep Learning</b>
15:30-16:30	<b>Keynote 2:</b> <b>Speaker: Dr Divesh Srivastava</b> <b>Title: Exploring and Analyzing Change: The Janus Project</b>
16:30-18:00	<b>Afternoon Tea and Social Activities</b>
18:30-21:00	<b>ADC Banquet</b>

Time	<b>ADC PhD School (4<sup>th</sup> September)</b> Venue: Design Studio, Level 5, Ainsworth Building (J17), Kensington Campus, UNSW
9:00-10:00	<b>Tutorial 1:</b> <b>Speaker: Prof Zhifeng Bao and Mr Hai Lan</b> <b>Title: Learn to Index Your Data and Select Your Index</b>
10:00-10:30	<b>Morning Tea</b>
10:30-11:30	<b>Tutorial 2:</b> <b>Speaker: A/Prof Lu Qin</b> <b>Title: Querying and Processing Bipartite Graphs: Models, Algorithms and Experiments</b>
11:30-12:00	<b>Invited Talk 1:</b> <b>Speaker: Mr Alexander Zhou</b> <b>Title: Beyond Normal Graphs: Finding New Research Topics on Complex Graph Types</b>
12:00-12:30	<b>Invited Talk 2:</b> <b>Speaker: Dr Jingwei Hou</b> <b>Title: Three Lessons I Learnt During my PhD</b>
12:30-13:30	<b>Lunch</b>
13:30-14:30	<b>Tutorial 3:</b> <b>Speaker: A/Prof Jianxin Li</b> <b>Title: Temporal Community Mining, Computation and its Applications</b>
14:30-15:30	<b>Tutorial 4:</b> <b>Speaker: Dr Renata Borovica-Gajic</b> <b>Title: Machine Learning and Databases: Friends or Foes?</b>
15:30-16:00	<b>Afternoon Tea and ADC Closing</b>