



THE 22ND AUSTRALASIAN DATA SCIENCE AND MACHINE LEARNING CONFERENCE

November 25-27, 2024
Melbourne, Australia



This is the short version of the booklet for print use. Full abstracts with all authors, references, and figures can be found in the electronic version at <https://ausdm24.ausdm.org/>

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Messages from the Chairs

Message from the Steering Committee Chairs

On behalf of the AusDM Steering Committee, we are delighted to welcome you to this year's AusDM Conference in Melbourne.

Launched as the Australasian Data Mining Conference in 2002 and rebranded in 2023 as the Australasian Data Science and Machine Learning Conference, AusDM continues to evolve in step with advancements in data science and technology. The rebranding reflects the growing prominence of data science, driven by the computational scaling of data analysis, the foundational contributions of data mining, and the critical role of machine learning in modern science.

AusDM fosters the exchange of ideas, experiences, and future research directions across disciplines and professions. It aims to strengthen connections and foster partnerships among academia, industry, and communities.

With the theme "Entering a New World Driven by Data Science and Machine Learning," AusDM 2024 features an exciting lineup, including keynote speeches, industry panel sessions on Cyber Security, Digital Transformation, and Environmental, Social, and Governance (ESG), as well as paper presentations, tutorials, and a doctoral consortium.

We extend our heartfelt thanks to the AusDM 2024 Organising Committee, led by Dr. Yee Ling Boo (General Chair), for their outstanding efforts in making this year's AusDM conference a success.

Warm regards,

- **Yun Sing Koh (University of Auckland)** —
- **Richi Nayak (Queensland University of Technology)** —
- **Yanchang Zhao (CSIRO's Data61)** —

Message from the General Co-Chairs

On behalf of the 2024 Australasian Data Science and Machine Learning Conference (AusDM24) organising committee, we would like to welcome you to Melbourne and particularly the 22nd AusDM!!

AusDM24 aims to facilitate the cross-disciplinary exchange of ideas, experience and potential research directions of Data Science and Machine Learning. It will be a meeting place for pushing forward the frontiers of the field in academia and industry. This year, AusDM24 is themed as "Entering a new world driven by Data Science and Machine Learning."

We are thrilled to present an exciting lineup of keynote talks, industry panel discussions, tutorials, doctoral consortium and oral paper presentations and social events. We have organised keynotes and industry panel discussions which are themed around trending topics, namely Cyber Security (Day 1), Digital Transformation (Day 2) and Environmental, Social and Governance (ESG, Day 3). The three exciting keynotes will be presented by Associate Professor Xingliang Yuan (University of Melbourne), Professor Prem Prakash Jayaraman (Swinburne University of Technology) and Professor Richi Nayak (Queensland University of Technology), respectively. We have also orchestrated three interesting industry panel discussions. The industry panellists/speakers for Cyber Security (Day 1) include Mayur Kriplani (EY), Dr Sebastien Wong (Defence Science and Technology Group), Dr Maggie Liu (RMIT University) and Guru Hegde (Microsoft). Syed Ahmed (Department of Transport and Planning, Victoria), Craig Lawton (Amazon Web Services) and Dr Behnam Atazadeh (University of Melbourne) form the industry panel for Digital Transformation (Day 2). For Day 3, Professor Gillian Vesty (RMIT University), Mitch Tomazic (EY), Rakesh Singh (Oracle) and Dr Arbind Agrahari Baniya (Department of Energy, Environment and Climate Action, Victoria) are assembled for the industry panel discussion pertinent to ESG.

We will also have two insightful and practical tutorials in the areas of Explainable AI (by Dr Ronal Singh – CSIRO's Data61 and Professor Tim Miller – University of Queensland) and Data Visualisation (by Associate Professor Quang Vinh Nguyen and Dr Zhonglin (Jolin) Qu – Western Sydney University). At the Doctoral Consortium, Dr Feng Liu (University of Melbourne), Dr Lin Yue (University of Adelaide) and Dr Tahereh (or Tara) Pourhabibi (intelia) will share their experiences with the audience, specifically the doctoral students. Additionally, we have organised four sessions for the accepted research and application papers in which the authors will share their insights and findings covering areas such as machine learning, deep learning and LLMs, data mining and analytics. We have arranged two social events – reception on Day 1 and dinner cruise on Day 2 – to ensure attendees can network and connect.

A big call out to every member of organising committee for their hard work and commitment to AusDM24. We want to specially thank the Program Chairs: Dr Thirunavukarasu Balasubramaniam (Queensland University of Technology), Associate Professor Kewen Liao (Australian Catholic University), Dr Diana Benavides Prado (University of Auckland), Dr Varvara Vetrova (University of Canterbury); the Industry Chair: Dr Khanh Luong (Queensland University of Technology and Charles Sturt University); the Tutorial/ Workshop Chairs: Dr Robert Shen (RACE Hub, RMIT University), Dr Su Nguyen (RMIT University); the Doctoral Consortium Chairs: Dr Weijia Zhang (University of Newcastle), Dr Pei-Wei Tsai (Swinburne University of

Technology); the Publication Chair: Dr Yee Ling Boo (RMIT University); the Web Chair: Jiaheng Wei (RMIT University); the Publicity Chair: Dr Asara Senaratne (Flinders University); the Local Organising Chairs: Dr Araz Nasirian (RMIT University), Dr Lin Li (Southern Cross University) and the Sponsorship Chair: Dr Robert Shen (RACE Hub, RMIT University).

Finally, we could not have done it without the support from the program committee who assisted with their expertise during paper reviews. We are appreciative of the support provided by the professional staff (Michael Dinh, Mathew Seabrook and Luke Raisbeck) and volunteers from RMIT University (Dr Cong Kha Nguyen, Bonan Zhang, Chaoqi Jia, Shahrzad Valizdeh, Jiaheng Wei, Abhinav Srivastava and Jun Wu) and Swinburn University of Technology (Chang Wu and Leihan Xu). We are also very grateful for our sponsors' generous financial and in-kind contributions - RMIT Enterprise AI and Data Analytics Hub and Amazon Web Services.

We look forward to meeting everyone in-person in Melbourne for an inspiring and insightful annual conference.

Warm regards,

— **Yee Ling Boo (RMIT University)** —
— **Diana Benavides Prado (University of Auckland)** —
— **Yanchang Zhao (CSIRO's Data61)** —

Message from the Program Chairs

The 22nd Australasian Data Science and Machine Learning Conference (AusDM 2024) attracts researchers and practitioners of data science and machine learning from academia and industry, and presents state-of-the-art approaches to the most challenging problems in these areas. This year's conference, hosted in Melbourne, Australia, is a meeting place for pushing forward the frontiers of data science and machine learning in the Australasian region.

It is our pleasure to present the proceedings of AusDM 2024. The research track of the conference was very competitive, with 33 full paper submissions of which 14 were accepted for publication. Similarly, the application track received 14 submissions, of which 5 were accepted for publication. Therefore, the conference provided a 40% acceptance rate for each track. Each submission was reviewed by at least two program committee members, and the acceptance decisions were made based on the reviewers' scores and comments. The reviewing process was double-blind (both reviewers and authors were not revealed to each other) to reduce bias. The accepted papers for the research track cover a variety of topics such as large language models, physics-informed neural networks, uncertainty quantification, topic modelling, and image analysis, among others. The accepted papers for the application track cover topics such as ML for glucose forecasting, ML for water temperature forecasting, AI safety in the public sector, among others. Each of the accepted papers will be presented at the conference.

The conference program is organised into three days of specialised topics including Data Science, Machine Learning, and AI in Cyber Security (Day 1), Data Science, Machine Learning, and AI in Digital Transformation (Day 2) and Data Science, Machine Learning, and AI in Environmental, Social and Governance ((ESG), Day 3). These days start with insightful keynote talks from Assoc. Prof. Xingliang Yuan (The University of Melbourne), Prof. Prem Prakash Jayaraman (Swinburne University of Technology) and Prof. Richi Nayak (Queensland University of Technology), respectively, followed by industry panels with experts in Cybersecurity (featuring Mayur Kriplani from EY, Dr. Sebastien Wong from Defence Science and Technology Group, Dr. Maggie Liu from RMIT University, and Guru Hegde from Microsoft), Digital Transformation (featuring Syed Ahmed from Department of Transport and Planning, Victoria, Craig Lawton from Amazon Web Services, and Dr. Behnam Atazadeh from (The University of Melbourne)), and ESG (featuring Prof. Gillian Vesty from RMIT University, Mitch Tomazic from EY, Rakesh Singh from Oracle, and Dr. Arbind Agrahari Baniya from Department of Energy, Environment and Climate Action, Victoria). The program also includes oral presentations of papers, tutorials, a doctoral consortium and networking opportunities.

We thank everyone involved in the conference, including authors, speakers and panellists, for their contributions, efforts and time to share their knowledge with the Australasian data science and machine learning community. We also thank the program committee for their time, effort, insightful reviews, and feedback. It is these joint efforts that make AusDM 2024 a success.

Planning and running the conference required the expertise and dedication of many. We thank the Steering Committee Co-Chairs Prof. Yun Sing Koh (The University of Auckland), Prof. Richi Nayak (Queensland University of Technology) and Dr. Yanchang Zhao (Data61, CSIRO), the General Co-Chairs Dr. Yee Ling Boo (RMIT University), Dr. Diana Benavides Prado (The

University of Auckland) and Dr. Yanchang Zhao (Data61, CSIRO), the Industry Chair Dr. Khanh Luong (Queensland University of Technology and Charles Sturt University), the Tutorial / Workshop Chairs Dr. Robert Shen (RACE Hub, RMIT University) and Dr. Su Nguyen (RMIT University), the Doctoral Consortium Chairs Dr. Weijia Zhang (University of Newcastle) and Dr. Pei-Wei Tsai (Swinburne University of Technology), the Publication Chair Dr. Yee Ling Boo (RMIT University), the Web Chair Jiaheng Wei (RMIT University), the Publicity Chair Dr. Asara Senaratne (Flinders University), the Local Organising Chairs Dr. Araz Nasirian (RMIT University) and Dr. Lin Li (Southern Cross University) and the Sponsorship Chair Dr. Robert Shen (RACE Hub, RMIT University).

Warm regards,

Program Chairs (Research Track):

- **Thirunavukarasu Balasubramaniam (Queensland University of Technology)** —
- **Kewen Liao (Australian Catholic University)** —

Program Chairs (Application Track):

- **Diana Benavides Prado (The University of Auckland)** —
- **Varvara Vetrova (University of Canterbury)** —

About



The Australasian Data Science and Machine Learning Conference formerly known as the Australasian Data Mining Conference has established itself as the premier Australasian meeting for both practitioners and researchers in Data Science including but not limited to Data Analytics and Data Mining theory and applications and Machine Learning including but not limited Deep Learning and Generative AI. It is devoted to the art and science of intelligent learning and analysis of (usually big) data sets for meaningful (and previously unknown) insights. This conference will enable the sharing and learning of research and progress in the local context and breakthroughs in Data Science and Machine Learning algorithms and their applications across all industries.

Since AusDM'02 the conference has showcased research in Data Science and Machine Learning, providing a forum for presenting and discussing the latest research and developments. Built on this tradition, AusDM'24 will facilitate the cross-disciplinary exchange of ideas, experience and potential research directions. Specifically, the conference seeks to showcase: Research Prototypes; Industry Case Studies; Practical Technology; and Research Student Projects. AusDM'24 will be a meeting place for pushing forward the frontiers of Data Science and Machine Learning in academia and industry. The theme of the conference this year is **Entering a new world driven by Data Science and Machine Learning.**

Diversity, Equity and Inclusion Statement: AusDM'24 promotes an inclusive environment and encourages the open expression and exchange of ideas, free from all forms of discrimination, retaliation, and harassment. AusDM'24 is committed to empowering diverse, equitable, and inclusive participation.

Conference Program

Day 1 - Monday 25 November 2024

<p style="text-align: center;">Theme: Data Science, Machine Learning, and AI in Cybersecurity MC: Dr Yee Ling Boo</p>	
8.30am – 9.00am	Registration Open
9.00am – 9.10am	Opening & Acknowledgement of Country (Dr Yee Ling Boo)
9.10am – 10.00am	Keynote: Securing Graph Neural Networks in MLaaS Associate Professor Xingliang Yuan (University of Melbourne) (Session Chair: Dr Chao Chen)
10.00am – 10.30am	Morning Tea
10.30am – 12.00pm	Industry Panel Discussion Mayur Kriplani (EY) Dr Sebastian Wong (Defence Science and Technology) Dr Maggie Liu (RMIT University) Guru Hedge (Microsoft) (Moderator: Dr Chao Chen)
12.00pm – 1.00pm	Lunch
1.00pm – 4.00pm	Tutorial 1 – Human Centred Explainable AI: Principles, Guidelines and Practical Examples Dr Ronal Singh (CSIRO Data61) and Professor Tim Miller (University of Queensland) (Session Chair: Dr Su Nguyen)
4.00pm – 4.30pm	Afternoon Tea
4.30pm – 5.45pm	Session 1 – Research Track Paper Presentations (5 papers) (Session Chair: Dr Thirunavukarasu (Thiru) Balasubramaniam)
5.45pm – 6.30pm	Social Networking session/ Reception

Day 2 - Tuesday 26 November 2024

	Theme: Data Science, Machine Learning, and AI in Digital Transformation MC: Dr Yee Ling Boo
8.30am – 9.00am	Registration Open
9.00am – 9.45am	Keynote: Driving Human Centric Digital Transformation Professor Prem Prakash Jayaraman (Swinburn University of Technology) (Session Chair: Dr Pei-Wei Tsai)
9.45am – 10.15am	Morning Tea
10.15am – 11.30am	Industry Panel Discussion Syed I Ahmad (Department of Transport and Planning, Victoria) Dr Behnam Atazadeh (University of Melbourne) Craig Lawton (Amazon Web Services) (Moderator: Dr Asara Senaratne)
11.30am – 12.45pm	Session 2 – Application Track Paper Presentations (5 papers) (Session Chair: Dr Araz Nasirian)
12.45pm – 1.45pm	Lunch
1.45pm – 3.45pm	Tutorial 2 – Communicating Complex Data with Visualisation Associate Professor Quang Vinh Nguyen and Dr Jolin Qu (Western Sydney University) (Session Chair: Dr Robert Shen)
3.45pm – 4.15pm	Afternoon Tea
4.15pm – 5.15pm	Session 3 – Research Track Paper Presentations (4 papers) Theme: Machine Learning (Session Chair: Dr Thirunavukarasu (Thiru) Balasubramaniam)
5.15pm – 5.45pm	Getting to the venue of conference dinner
5.45pm – 8.45pm	Conference Dinner Cruise

Day 3 - Wednesday 27 November 2024

	Theme: Data Science, Machine Learning, and AI in Environmental, Social and Governance (ESG) MC: Dr Yee Ling Boo
8.30am – 9.00am	Registration Open
9.00am – 9.45am	Keynote: Unearthing the Past: Using Text-Mining to Support the Repatriation of First Nations Ancestral Remains Professor Richi Nayak (Queensland University of Technology) (Session Chair: Dr Weijia Zhang)
9.45am – 10.15am	Morning Tea
10.15am – 11.15am	Industry Panel Discussion Mitch Tomazic (EY) Professor Gillian Vesty (RMIT University) Rakesh Singh (Oracle) Dr Arbind Agrahari Baniya (Department of Energy, Environment and Climate Change, Victoria) (Moderator: Dr Yee Ling Boo)
11.15am – 12.30pm	Session 4 – Research Track Paper Presentations (5 papers) Theme: Deep Learning and LLMs (Session Chair: Dr Asara Senaratne)
12.30pm – 1.30pm	Lunch
1.30pm – 2.30pm	Doctoral Consortium Panel Discussion Dr. Feng Liu (University of Melbourne), Dr. Lin Yue (University of Adelaide) Dr. Tahereh (Tara) Pourhabibi (Intelia) (Session Chairs: Dr. Weijia Zhang and Dr. Pei-Wei Tsai)
2.30pm – 4.30pm	Doctoral Consortium – Pitch Your Project (Session Chairs: Dr. Weijia Zhang and Dr. Pei-Wei Tsai)
4.30pm – 5.30pm	Networking Coffee Chat/ Afternoon Tea

Invited Speakers

Cyber Security - Day 1



Securing Graph Neural Networks in MLaaS

Associate Professor **Xingliang Yuan**, University of Melbourne

Keynote

Graph Neural Networks (GNNs) extend the benefits of deep learning to graph data. In practice, their applications span from common utilities such as recommendation systems and fraud detection, to advanced domains such as drug discovery and physics simulation. Due to the increasing popularity of GNNs, commercial Machine Learning as a Service (MLaaS) platforms have integrated graph learning development tools for launching GNN services on the cloud, e.g., Amazon SageMaker integrated DGL. Despite the convenience and low cost of model development and deployment, such service is facing critical security challenges. In this talk, I will first overview the architecture of GNNs in MLaaS and elaborate on practical threats against privacy and integrity of GNNs. Then I will present our recent effort in detecting and counteracting training data misuse in GNNs. Along the line, I will also pinpoint open problems and future directions in this area.

Xingliang Yuan is currently an Associate Professor in the School of Computing and Information Systems, the University of Melbourne. Before that, he was a faculty member at Monash University from 2017-2024. He has a keen interest in designing systems and protocols to address real-world privacy and security challenges. His research has been supported by the Australian Research Council, CSIRO, Australian Department of Home Affairs, Australian Department of Health and Aged Care, and the Oceania Cyber Security Centre. His work has been published in major venues of computer security and systems, such as CCS, S&P, USENIX Security, NDSS, TDSC, TIFS, etc. He is a recipient of the Dean's Award for Excellence in Research by an Early Career Researcher (2020), and the Faculty Teaching Excellence Award (2021). He is a co-recipient of the best paper award in the European Symposium on Research in Computer Security 2021. He is on the editorial board of IEEE Transactions on Dependable and Secure Computing and IEEE Transactions on Service Computing. He is a track co-chair of ICDCS'24, PST'24, and program co-chair of SecTL'23 and NSS'22. He is an ARC future fellow and a senior member of IEEE.



Mayur Kriplani, EY

Panelist

Mayur is an Innovative leader in Threat Exposure Management Solutions, adept at guiding organisations through the complexities of cyber risk. As Associate Director at EY, he spearheads innovative strategies to identify, assess, and mitigate threats, ensuring clients stay resilient in the face of evolving cyber threats. With a focus on proactive threat intelligence and cutting-edge technologies, Mayur empowers teams to safeguard digital environments effectively and is dedicated to driving tangible results and fostering a culture of security excellence.



Dr. Sebastien Wong, Defense Science and Technology Group

Panelist

Dr Sebastien Wong leads a team of scientists and engineers conducting applied research into computer vision within Information Sciences Division in Defence Science Technology Group. Sebastien holds a Bachelor of Computer Systems Engineering (with honours) from Curtin University, a Master of Electronic Systems Engineering and a Ph.D. in Computer Science, both from the University of South Australia. Sebastien also holds a Graduate Diploma in Scientific Leadership from the University of Melbourne and is a graduate of the Australian Institute of Company Directors. Sebastien has over two decades of experience in translating research algorithms into operational solutions for Defence, Mining and Agriculture. Sebastien conceived and led the creation of a multi-award winning AgTech product for mapping and monitoring the world's high-value crops, which was used to map Australia's vineyards. Sebastien's current team is working on problems that range from finding dark fishing vessels using synthetic aperture radar (SAR) imagery, to enhancing situational awareness for drone video operators. Sebastien is passionate about applying his experience in computer vision and machine learning to transform Defence by providing intelligent tools to decision-makers.



Dr Maggie Liu, RMIT University

Panelist

Dr Xiaoning (Maggie) Liu is a Lecturer (aka Assistant Professor) at the School of Computing Technologies, RMIT University, Australia. Her research pivots on data privacy and security related to machine learning, cloud computing, and digital health. Her current focus is on designing practical secure multiparty computation protocols and systems to its applications in privacy-preserving machine learning. She earned her Ph.D. in Computer Science degree in 2022 from RMIT University. In the past few years, her work has appeared in prestigious venues in computer security, such as IEEE Transactions on Dependable and Secure Computing (TDSC), IEEE Transactions on Information Forensics and Security (TIFS), USENIX Security Symposium, and European Symposium on Research in Computer Security (ESORICS). Her research has been supported by Australian Research Council, and CSIRO. She is the recipient of the Best Paper Award of ESORICS 2021.



Guru Hedge, Microsoft

Panelist

Guru is a technical specialist in Data and AI at Microsoft. He has background in Engineering and has worked with Microsoft IT and Research and has patents in the area of touchless input algorithms. He engages with customers, understanding their requirements, and helping them architect and achieve business benefits on the Azure cloud.

Human-Centred Explainable AI: Principles, Guidelines and Practical Examples

Professor Tim Miller and Dr Ronal Singh,

Tutorial



This tutorial on Human-Centred Explainable AI (HCXAI) aims to equip participants with the knowledge and skills necessary to develop explainable AI systems. Through a human-centred approach, participants will explore core principles such as user understanding, trust calibration, and cognitive engagement. The session will cover a variety of explanation methods, offering guidance on designing effective explanations that enhance user understanding and interaction with AI systems. Attendees will gain insights into best practices for conducting user studies and evaluating XAI systems. Through interactive demonstrations and hands-on activities, they will deepen their practical knowledge. Participants will also receive support materials, including slides, links and references to XAI tools, and examples of user studies.

Tim is a professor of artificial intelligence at the School of Electrical Engineering and Computer Science at The University of Queensland, Meanjin/Brisbane, Australia. His research draws on machine learning, reinforcement learning, AI planning, interaction design, and cognitive science, to help people to make better decisions. He has done work in areas including explainable AI, human-AI planning, and human-centred decision support. Prior to his appointment at The University of Queensland, Tim was a Professor of Computer Science in the School of Computing and Information Systems at The University of Melbourne, where he was founding co-director of The Centre for AI and Digital Ethics. He is an honorary professor at the University of Melbourne.

Ronal is a Research Scientist with the Human Centric Security team in CSIRO's Data61 and a member of the CINTEL FSP. Ronal's primary interest lies in artificial intelligence, particularly multi-modal human-agent interactions, AI-assisted decision-making, explainable AI, intention recognition, and multiagent communication planning. Previously, he was a Research Fellow in Human-Agent Collaboration and an Associate Lecturer in the School of Computing and Information Systems at the University of Melbourne. Ronal completed his PhD in 2018 from the University of Melbourne and his BSc and MSc degrees in Computer Science from the University of the South Pacific in the Fiji Islands.

Digital Transformation - Day 2



Syed Ahmed, Department of Transport and Planning, Victoria

Panelist

Syed Ahmed is the Executive Director of Data and Analytics at the Department of Transport and Planning (DTP), where he leads the strategic direction and operational management of data initiatives across five key areas: Data Engineering, Insights and Analytics, Open Data, Advanced Analytics, and Artificial Intelligence. With a career that began as a junior software developer, Syed has honed his expertise in data-focused roles, for the last two decades. Passionate about using data to drive impactful decisions, Syed is dedicated to fostering a data-driven culture within DTP, ensuring teams are equipped with the right skills and tools to enhance transport infrastructure, sustainability, and digital transformation. Outside of his professional role, Syed is most proud of raising his two sons, who inspire him with their resilience and unique strengths. He enjoys playing chess with them, staying active through sports like basketball and squash, and spending time with his 3-year-old Labrador, Charlie. Syed also finds balance by reading philosophy, which keeps his mind engaged while providing a relaxing outlet.



Craig Lawton, Amazon Web Services

Panelist

Transform your organization with Craig Lawton, cloud computing visionary. As Principal AI & Data Technologist at Amazon Web Services (Australia and New Zealand), Craig has over 20 years of experience guiding top companies and government agencies into the future. Craig saw the revolutionary potential of the cloud early on. His popular blog, coffeescroll.com, showed the way for widespread cloud adoption. Craig has led teams of elite data science, research and modernization specialists at AWS, trusted by organizations across the region. Want to modernize your organization with Artificial Intelligence and Data Modernization? Craig has the insider knowledge to make it happen. He has spoken at prestigious events like the World Cities Summit and AWS re:Invent on generative AI, data science, smart cities, high-performance computing and more. Craig has worked with top players in technology, government, infrastructure, retail and finance. His rare mix of public and private sector experience makes him uniquely suited to advise your leadership. Transform your organization by leveraging Craig's expertise. Connect with one of the foremost authorities on AI, cloud computing and modernization.



Dr. Behnam Atazadeh, University of Melbourne

Panelist

Dr Behnam Atazadeh is an Australian Research Council (ARC) Discovery Early Career Fellow in the Centre for Spatial Data Infrastructures and Land Administration (CSDILA), Department of Infrastructure Engineering at the University of Melbourne. Serving as a research team leader in digital land administration, he specializes in modelling, capturing, validating, integrating, visualizing, querying, and analysing land and geospatial data. He is dedicated to developing new 3D digital and intelligent solutions for land and property ownership in complex built environments. Beyond this, Behnam has contributed to the modernization of land administration systems in different jurisdictions. Notable projects include the ARC linkage project "3D Property Ownership Map Base for Smart Urban Land Administration," conducted in collaboration with government agencies and industry partners such as Land Use Victoria, Intergovernmental Committee on Surveying and Mapping (ICSM), City of Melbourne, ePlan project for the Victorian government, 3D land administration project for the Malaysian government, and SmartLand project for the Indonesian government.

Communicating Complex Data with Visualisation

A/Prof. Quang Vinh Nguyen and Dr Zhonglin (Jolin) Qu,

Tutorial



Computational and statistical analytic methods alone may not solve the big data problems effectively, and their results could be rejected by users due to the lack of trust and interpretability. Interactive visualisation can explain, verify, and allow users to explore and see computed and original data in interpretable ways informing pattern recognition, insight, and relationship discovery. With so much information at your fingertips, it is a challenge to visualise complex and multidimensional data, highlight important messages, and remove the clutters that may cost the audience an extra cognitive load. This tutorial serves as a practical guide that provides theoretical knowledge and visualisation in exploratory and explanatory data analysis. The tutorial includes hands-on activities and practical demonstrations on how computational analytics can connect with visualisation on Tableau and Python platforms. Finally, we will showcase an interactive method to visualise complex charts, and flow charts on maps using the above platforms.

Dr Nguyen is an Associate Dean of Graduate Studies, at Western Sydney University at the School of Computer, Data and Mathematical Sciences, and MARCS Institute for Brain, Behaviour and Development, Western Sydney University, and an Associate Professor in Visual Analytics. His main research areas are in the fields of Immersive Analytics, Visual Analytics and Information Visualisation, including Medical Data Analysis, Graph and Network Analysis, Graph Drawing, Applications with Visualisation and Visual Analytics, Visual Collaborative Systems, Human-Computer Interaction, and Machine Learning and interpretability. For his academic career, Dr Nguyen has authored and co-authored over 130 refereed publications. He has successfully supervised and co-supervised to the completion of eight PhD students, four Research Masters, and numerous Honours students and research project students.

Dr Zhonglin (Jolin) Qu completed her PhD in 2024, and she currently is an associate lecturer in the School of Computer, Data & Mathematical Sciences at Western Sydney University. Dr Qu's research focuses on visual analytics, explainable AI for visual decision-making, visualisation, data storytelling, virtual reality, and the metaverse. She has published 15 peer-reviewed papers in the past six years, seven of whom are the first author. Dr Qu has ten years of industry experience as a software engineer before becoming an academic. She has been teaching and coordinating various postgraduate and undergraduate subjects at Western Sydney University and the University of Technology, Sydney including Visualisation, Visual Analytics, Systems Analysis and Design, Object Oriented Programming, and Artificial Intelligence.



Unearthing the Past: Using Text-Mining to Support the Repatriation of First Nations Ancestral Remains

Prof. Richi Nayak, Queensland University of Technology

Keynote

One of the most urgent issues facing Australian and other First Nations peoples is the repatriation of their ancestors' bodily remains, many of which are still held in Western scientific institutions. The return of these remains for proper reburial is a critical matter of cultural and ethical importance. However, success in this effort often depends on locating records—scattered across scientific and historical literature from 1790 to 1970—that document the theft, donation, sale, or exchange of these remains between institutions. In this talk, I will explore how text-mining techniques can be applied to identify and extract this crucial information from vast textual archives, providing invaluable support for repatriation. The talk will highlight practical challenges, innovative approaches and the potential impact of these technologies in empowering communities to reclaim their cultural heritage.

Dr Richi Nayak is a professor at the School of Computer Science and Deputy Director of the Centre for Data Science, Faculty of Science, Queensland University of Technology, Brisbane, Australia. She is a leader in the field of machine learning with over 25 years of experience. Her research interests encompass data and text mining, deep learning, matrix and tensor factorisation, social media mining and personalisation. She has successfully overseen 25+ industry-related projects, delivering innovative machine-learning solutions adopted by industry and government sectors. She pioneered a groundbreaking data-driven machine learning-based marketing strategy automation technology, commercialised by a top-10 marketing strategy consultancy in the USA and Australia. She also developed a deep learning-based bias detection approach commercialised by iShield.ai, aiding Fortune 500 companies in content management. In recognition of her exemplary contributions to the field of Data Analytics, she received the 2016 Women in Technology Infotech Outstanding Achievement Award.



A Voyage Through AI: From Biomedical Imaging to Insurance Chatbots and Beyond

Professor Gillian Vesty, RMIT University

Panelist

Gillian Vesty is a Professor and Deputy Dean L&T in the School of Accounting, Information Systems and Supply Chain at RMIT University, Melbourne, Australia. She is RMIT College of Business and Law, AACSB Assurance of Learning Coordinator. Gillian is a member of CPA Australia, a Board Member of IMA ANZ chapter. Her research interests seek to align management accounting's performance evaluation and strategic budgeting with social impact research that address health and wellbeing challenges from an environmental and value-based healthcare perspective. Gillian is an active Board Member of Games for Change, Asia Pacific, fostering the nexus between simulated artefacts in the form of serious games to provide a powerful vehicle for ongoing experimental research. Gillian is on the editorial board of Accounting Auditing and Accountability Journal.



Rakesh Singh, Oracle

Panelist

Rakesh Singh is an Enterprise Architect in the Customer Strategy team at Oracle Corporation. His work at Oracle bridges the gap between business and technology by combining a deep understanding of technologies, applications, best practices, and architectural patterns to drive digital transformation initiatives that meet business objectives for his customers. Throughout his career, Mr. Singh has worked with a diverse range of customers, from large enterprises to small organisations. His experience spans Federal and State Government agencies, major banks, and small non-profits, demonstrating his versatility in applying technological solutions across various sectors and organisational scales. In addition to his primary role, Rakesh serves as the lead for the Sustainability Community of Practice at Oracle JAPAC. This community brings together people and ideas to work towards a sustainable future using technology. Through this initiative, Rakesh fosters collaboration and innovation, leveraging technological solutions to address pressing environmental and sustainability challenges. Rakesh brings a unique blend of technical expertise, strategic vision, and commitment to sustainability in driving digital transformation and sustainable practices in the corporate world.



Mitch Tomazic , EY

Panelist

Mitch Tomazic is a Director in EY's Melbourne AI Data team. With over twenty years' experience in the development and implementation of IT strategy Mitch has witnessed many technology trends. Mitch has worked across multiple industries including Telecommunications, Retail, Logistics, Health and Travel with poor data management being one constant. Mitch is passionate about taking organisations on their data journey by improving data management capabilities and ensuring that investment in data is providing business value. Currently Mitch is focused on working with clients on their ESG reporting requirements by utilising multiple technologies to drive efficiency and effectiveness.



Dr Arbind Agrahari Baniya,

Department of Energy, Environment and Climate Action, Victoria

Panelist

Dr Arbind Agrahari Baniya is an emerging AI and deep learning specialist with a foundation in data-driven smart solutions, research, innovation and commercialisation. He holds a PhD in Information Technology from Deakin University, with a focus on computer vision and deep learning. Dr Agrahari Baniya has collaborative experience leading multi-organisational projects, particularly in the agricultural technology sector, where he applies AI/ML and data science solutions for Victorian apiary and horticulture industries. In his current role as a Systems Development Researcher at the Department of Energy, Environment and Climate Action (DEECA), Dr Agrahari Baniya continues to lead the design, development, and delivery of co-invested data & AI/ML projects, managing big data infrastructures, developing new proposals, supervising PhD and Masters researchers, and pursuing research innovation and commercialisation opportunities. More recently, Dr Agrahari Baniya has been working on data and infrastructure research for ESG credentialling in the agriculture sector. Throughout his career, Dr Agrahari Baniya has contributed to academia and industry with numerous publications and has been actively involved in professional and educational roles, including teaching, reviewing for prestigious journals, and participating in various conference committees. With his additional roles as a Sessional Academic and Research Fellow at Deakin University, he remains committed to advancing applied AI/ML projects, employing emerging generative AI paradigms for data-centric solutions, and driving multidisciplinary projects that lead to meaningful outcomes in shaping the AI industry landscape.



Knowing Yourself and Learning from Others: Transforming from A Student to A Faculty Member in Universities

Dr Feng Liu,

University of Melbourne

Panelist

Being a faculty member is one of the most important aims for researchers. This is not an easy task, especially for researchers who just graduated from universities. The main difficulties include 1) time management among supervision, securing research funds, teaching, and publications; 2) mindset change from students to faculties; 3) general work-life balance. In this talk, I will list some points regarding the above difficulties based on my experience and hope it will be useful for more junior researchers.

Dr Feng Liu is a machine learning researcher with research interests in hypothesis testing and trustworthy machine learning. Currently, he is a Lecturer (in Machine Learning) at The University of Melbourne, Australia, and a Visiting Scientist at RIKEN-AIP, Japan. He has served as an Area Chair for ICML, NeurIPS, ICLR. He also serves as an Editor for ACM Transactions on Probabilistic Machine Learning, Associate Editor for the International Journal of Machine Learning and Cybernetics, and Action Editor for Neural Networks. He has received the ARC Discovery Early Career Researcher Award, the Outstanding Paper Award of NeurIPS (2022), the Outstanding Reviewer Award of NeurIPS (2021), and the Outstanding Reviewer Award of ICLR (2021).



Women in Data Computer Science

Dr Lin Yue,

University of Adelaide

Panelist

In this talk, I will delve into the multifaceted journey of women in computer science, with a particular focus on the current situation of female academics in Australia. Despite the significant strides made in gender equality, women continue to face unique challenges in the academic sphere. Drawing from recent data and studies, I will provide an overview of the representation, achievements, and hurdles encountered by female academics in Australia today. Building on this context, I will share my personal experiences and strategies that have enabled me to overcome the obstacles faced by women in this field. From navigating gender biases to balancing professional and personal responsibilities, I will discuss practical approaches that have proven effective in my career. Finally, I will offer actionable suggestions and considerations for female academics in computer science. These insights aim to empower women to thrive in their careers, foster supportive networks, and advocate for systemic changes within their institutions. Join me as we explore the current landscape, share personal narratives, and envision a more inclusive future for women in computer science.

I serve as a Lecturer in Data Science and Statistics at the University of Adelaide. I received my PhD in Computer Application Technology from Jilin University, China, and was a joint PhD student at Data Science group, University of Queensland, Australia. My primary research interest lies in Sequential Data Analysis and its Applications (Medical Data Analytics, EEG Data Analytics, Brain-computer Interface, Social Media Data Analytics, Sentiment Analysis). I have authored 40+ peer-reviewed papers published in prestigious journals and top-tier international conferences. My work has garnered 1,097 citations, with an h-index of 12 and an i10-index of 16 (Google Scholar), featuring 20+ publications in journals and conferences ranked CORE A*/A or Q1. My contributions to the field have been acknowledged with multiple awards, including Best Papers and Best Student Paper. In the realm of professional service, I have been actively involved as a Program Committee member for several esteemed conferences, including AAAI, IJCAI, CIKM, SDM, PAKDD, PRICAI, IJCNN, etc. I served as Proceedings Chair for ADMA, APWeb-WAIM, and AJCAI, as well as an Area Chair and Meta Reviewer for ADMA.

Empowering the Future: Beyond Academia

Dr Tahereh (or Tara) Pourhabibi,



RMIT University

Panelist

My journey into the realm of data has been driven by an intrinsic curiosity and a deep-seated passion for understanding complex information. The transition from academia to the professional sphere marked the beginning of a series of enriching experiences and challenges that have significantly shaped my career. This transition not only honed my problem-solving abilities but also underscored the importance of resilience and ongoing learning. Working in the industry has afforded me invaluable opportunities to tackle real-world challenges, bridging the gap between theoretical knowledge and practical application. These experiences have profoundly enhanced my problem-solving skills and allowed me to address issues that often serve as catalysts for research and innovation. Unlike the more static nature of academia, the dynamic environment of the industry encourages a balance between in-depth research and broader exploration, offering a more immediate impact on societal needs. As a woman navigating a predominantly male-dominated field, I have observed firsthand how diversity can act as a powerful driver of innovation. Women in technology bring unique perspectives that not only contribute to more inclusive and effective solutions but also lead transformative initiatives with far-reaching benefits for society. This diversity of thought is essential for fostering creativity and advancing technological progress.

Dr.Tahereh Pourhabibi is a distinguished leader in data science and technology, bringing a wealth of expertise honed through a journey of academic excellence and practical application. With a foundation laid in rigorous academic pursuits, Dr. Pourhabibi earned her Ph.D. in Business Information Systems from RMIT University, where she delved deeply into anomaly detection, fraud detection and natural language processing. Armed with her doctoral research on graph-based anomaly detection, Dr. Pourhabibi transitioned seamlessly into the industry, driven by a passion to translate theoretical knowledge into impactful real-world solutions. She quickly established herself as a professional data scientist and started her career at National Australia Bank (NAB), leveraging her academic insights to lead the development of an innovative data-driven risk analytics framework, using data engineering and natural language processing to transform complex risk information into actionable insights. After her impactful tenure at NAB, Dr. Pourhabibi transitioned to Intelia, an Australian-owned company known for its cutting-edge projects in data and AI. Throughout her career, she has been a passionate advocate for women in IT, emphasizing the importance of diversity and inclusion to drive creative problem-solving and develop inclusive products.

List of Papers

Day 1 - Session 1

Session 1 (Day 1) – Research Track Paper Presentations

Theme: Data Mining and Analytics

	Paper Title / Author List	Speaker
2 mins	Session Briefing	Session Chair
16:32 16:46	Identifying individual anchoring regions by mining public transport smart card data. <i>Megan Born, Mark Reynolds and Rachel Cardell-Oliver</i>	Megan Born
16:46 17:00	Enhanced Carbon Credits Price Prediction with Multiple Influencing Market Factors <i>Qingwen Zeng, Hanlin Xu, Nanjun Xu, Junbin Gao and Huaming Chen</i>	Qingwen Zeng
17:00 17:14	PrivCQ: Trading Multi-dimensional Conditional Queries under Personalised Local Differential Privacy <i>Mengxiao Zhang, Weidong Li, Yiping Liu, Bakh Khoussainov and Jiamou Liu</i>	Mengxiao Zhang
17:14 17:28	NetDetective: Dynamic Cyber Situational Awareness <i>Ben Luo, Alexander Chambers and Hung Nguyen</i>	Ben Luo
17:28 17:42	AstroArm - Robotic Hand Simulation Environment for Satellite Servicing <i>Eirini Panteli, Belinda Chiera and Josh Chopin</i>	Eirini Panteli

Day 2 - Session 2

Session 2 (Day 2) – Application Track Paper Presentations

	Paper Title / Author List	Speaker
2 mins	Session Briefing	Session Chair
11:32 11:46	Effective Water Temperature Forecasting with Transformer <i>Richard Reynaldo Wironoto Susilo, Yanchang Zhao, Reena Kapoor, Devesh Bhogal, Peter Toscas and Klaus Joehnk</i>	Richard Reynaldo Wironoto Susilo
11:46 12:00	Glucose Forecasting through Physiological Modelling <i>Dane Lyttinen, Ivana Sequira-Bisson, Jennifer Miles-Chan and Yun Sing Koh</i>	Dane Lyttinen
12:00 12:14	Enhancing AI Safety in the Public Sector: A Field Experiment on Guardrails Leveraging LLMs for State Government Employees <i>Yue Wang, Duoyi Zhang, Xiangrui Kong, Marco Fahmi and Richi Nayak</i>	Yue Wang
12:14 12:28	Classifying Maritime Vessel Behaviour From AIS Using Statistical Features <i>James Cormack, Matthew Roughan and Hung Nguyen</i>	Matthew Roughan
12:28 12:42	Actively evaluating and learning the distinctions that matter: Vaccine safety signal detection from emergency triage notes <i>Sedigh Khademi, Christopher Palmer, Muhammad Javed, Hazel Clothier, Jim Buttery, Gerardo Luis Dimaguil and Jim Black</i>	Sedigh Khademi

Day 2 - Session 3

Session 3 (Day 2) – Research Track Paper Presentations Theme: Machine Learning

	Paper Title / Author List	Speaker
2 mins	Session Briefing	Session Chair
16:17 16:31	Multi-choice explanations for feature and parameter importance <i>Daniel Fryer, Hien Nguyen, Inga Strumke and David Lowing</i>	Daniel Fryer
16:31 16:45	GRADIOOD: A Framework for out-of-distribution sample identification using signed gradients for robust models <i>Dalha Alotaibi, Jianlong Zhou, Yifei Dong and Fang Chen</i>	Dalha Alotaibi
16:45 16:59	MP-PINN: A Multi-Phase Physics-Informed Neural Network for Epidemic Forecasting <i>Thang Nguyen, Dung Nguyen, Kha Pham and Truyen Tran</i>	Thang Nguyen
16:59 17:13	Robust Weed Detection with Evidential Neural Network-based Uncertainty Quantification <i>Jichao Kan, Zhidong Li, Jianlong Zhou and Fang Chen</i>	Jichao Kan

Day 3 - Session 4

Session 4 (Day 3) – Research Track Paper Presentations Theme: Deep Learning and LLMs

	Paper Title / Author List	Speaker
2 mins	Session Briefing	Session Chair
11:17 11:31	Generative Agents as Reliable Proxies for Human Evaluation of AI-Generated Content <i>Thanh Vu, Richi Nayak and Thirunavukarasu Balasubramaniam</i>	Thanh Vu
11:31 11:45	A Novel Vision-based Transformers for Seizure Detection with Multi-biosignals <i>Sheng Wong, Scott Barnett, Shobi Sivathamboo, Piero Perucca, Patrick Kwan, Zongyuan Ge, Levin Kuhlmann and Terence J. O'Brien</i>	Sheng Wong
11:45 11:59	ForCM: Forest Cover Mapping from Multispectral Sentinel-2 Image by Integrating Deep Learning with Object-Based Image Analysis <i>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</i>	Mohammad Zavid Parvez
11:59 12:13	SecEval: A Security Evaluation Dataset for Large Language Models <i>Huinling Cui and Wei Liu</i>	Huinling Cui
12:13 12:27	Topic Models Meet LLMs: Generating Insightful Questions from User Feedback <i>Duoyi Zhang, Yue Wang, Richi Nayak and Md Abul Bashar</i>	Duoyi Zhang

Day 3 - Doctoral Consortium

2 mins	Paper Title / Author List	Speaker
	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 Transhipment Policies to Improve the Blood Supply Chain Performance <i>Shahrzad Valizadeh, Babak Abbasi and Kok Leong Ong</i>	Shahrzad 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

Attending Information

Venue - AusDM'24 will be held at the *RMIT University Building 80 (Level 11, Room 10)* at the cosmopolitan heart of one of the “world’s most liveable cities, Melbourne”. The building incorporates a range of environmentally sustainable features resulting in it achieving a Green Building Council of Australia 5-star Green Star Education Design rating. The design approach to the building sought to locate it in dialogue with the surrounding architecture, both in form and colour, resulting in a striking façade and interior that is uniquely Melbourne.



Parking – No on-campus parking is available for visitors, but you’ll find many commercial car parks a short walk away. Metered street parking is also available nearby, but note the time limits and clearway restrictions.

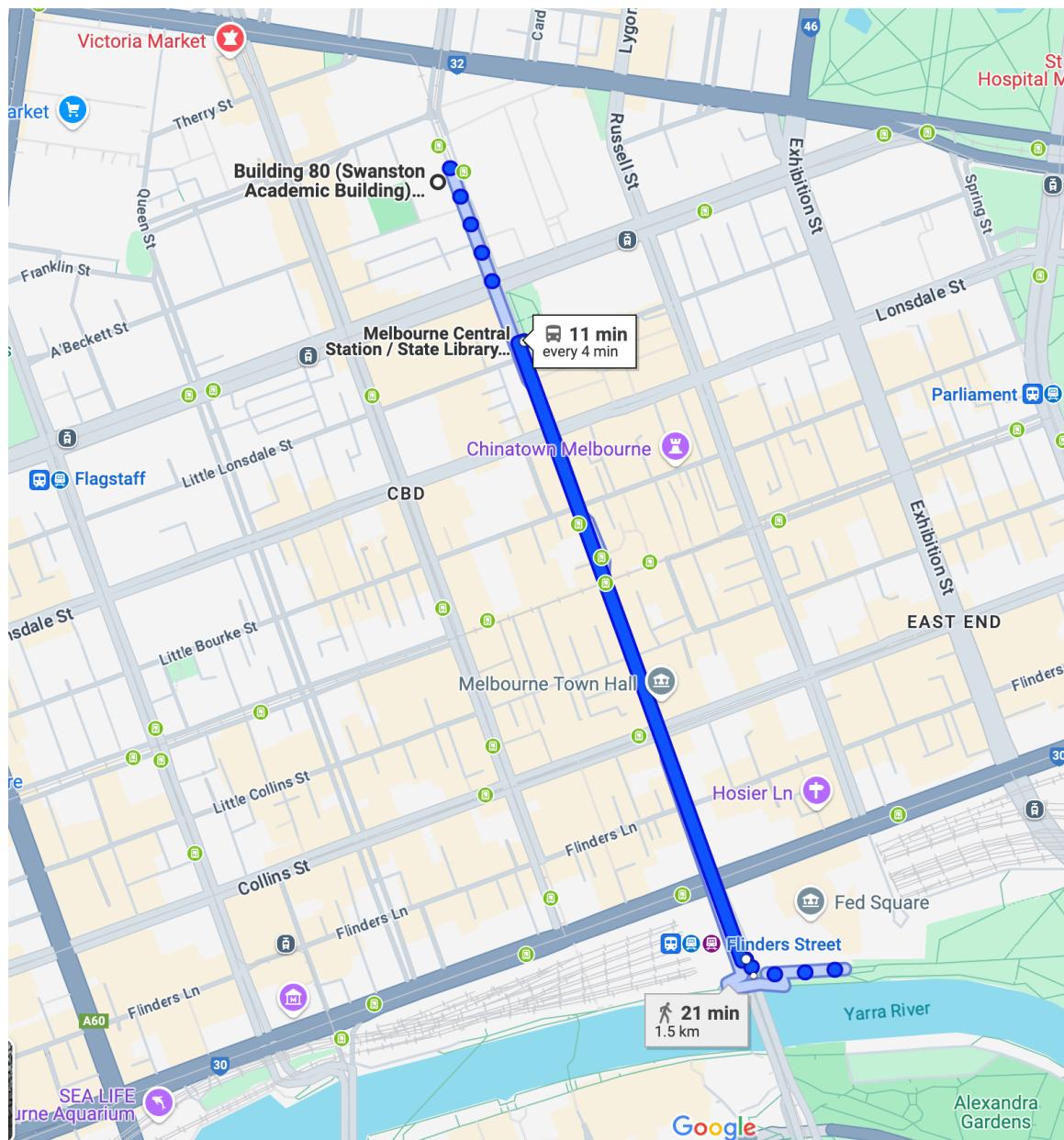
Public Transport – Trams running along Swanston Street include routes 1, 3, 5, 6, 8, 16, 64, 67 and 72, from which you can connect to the train at Melbourne Central or Flinders Street.

Wifi Access – Please follow the following procedure to get access to Campus Wifi.

1. Select *RMIT-Guest* from the list of available wifi networks in your device.
2. Once this network is selected, you will be directed to a web page, from which you should select ‘Event’. Then, enter the Event Code *057290*, and click *Next*.
3. Provide your details, accept the terms and conditions, and click *Register*.
4. You will then be presented with a receipt, with a username and password (which you should make a record of) and select *Log in*.

Conference Dinner - The dinner will take place on a Melbourne River Cruise. We will travel to Federation Wharf (FW), where we will board the chartered boat for the Yarra River dinner cruise, either by tram (approximately 15 minutes) or on foot (22 to 25 minutes). The dinner cruise will begin promptly at 5:45 PM and conclude by 8:45 PM. To ensure a timely departure, everyone must be on board by 5:45 PM. Please note that the boat cannot return to pick up anyone who misses the departure. If you wish to drive, there are parking facilities at the Federation Square, which can be accessed via Russell Street Extension. The following two maps provide route guidance.

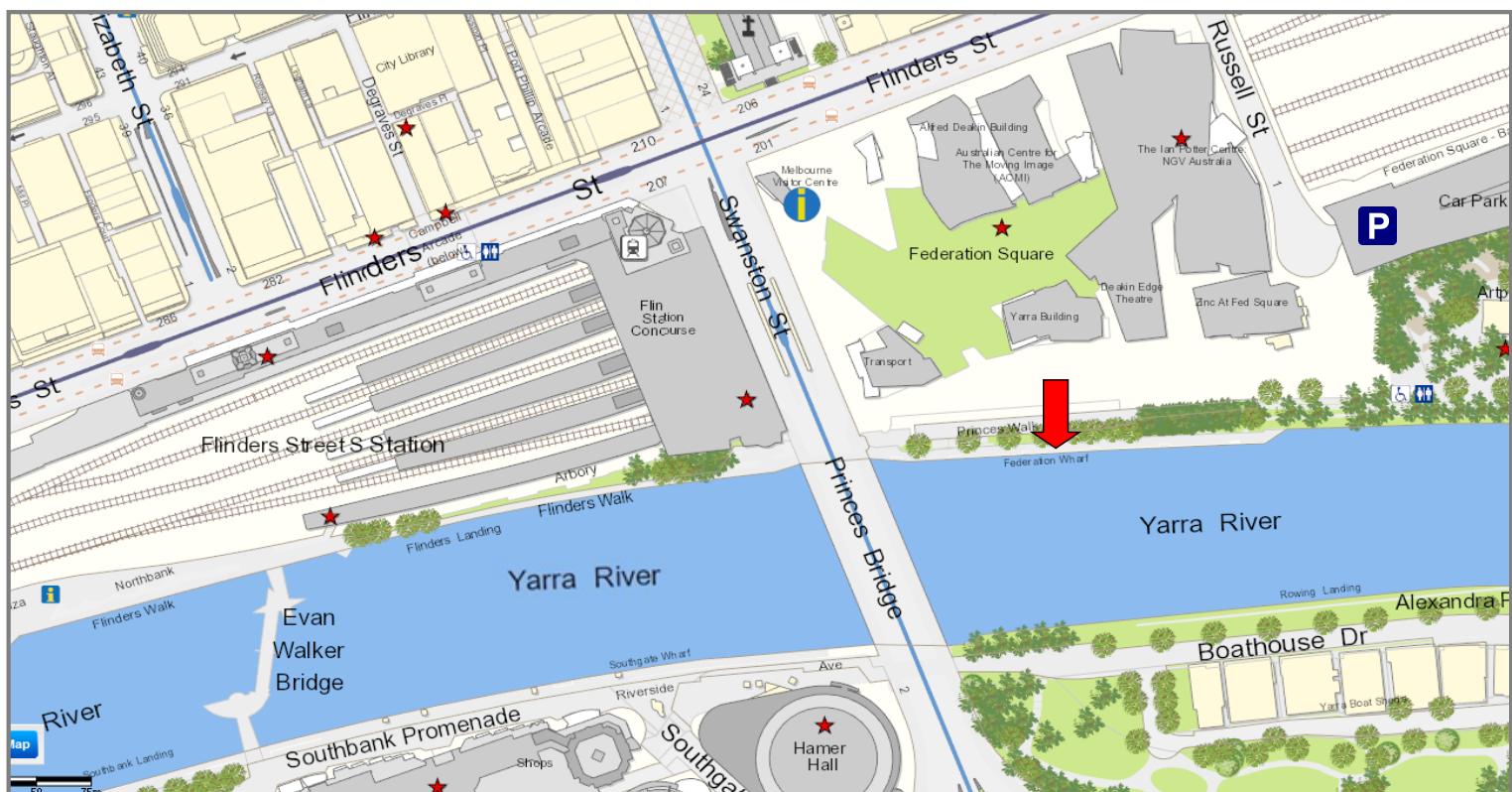
Note: All guests must have proof of identification to show when boarding.





DEPARTURE POINT MAP

FEDERATION WHARF | Berth 6 Federation Wharf (Princes Walk), Melbourne VIC 3000
**NEAR RIVERLAND BAR



P **PARKING:** There are parking facilities at [Federation Square](#) which can be accessed via [Russell Street Extension](#).

E: info@melbcruises.com.au | T: +61 3 8610 2600 | Head Office Hrs.: 9:00AM - 5:00PM (M-F)

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On behalf of the Conference Organising Committee, it is our great pleasure to welcome you to the Australasian Data Science and Machine Learning Conference 2024, held in Melbourne, Australia, in November 2024.



