

# AI 2019 and AusDM 2019 Conference Program

**Dates:** 2-5 Dec 2019

**Conference location:** Level (-1), Hotel InterContinental Adelaide ([map](#)), North Terrace Adelaide, South Australia 5000

**Conference websites:**

<http://nugget.unisa.edu.au/AI2019/index.php>,

<http://nugget.unisa.edu.au/AusDM2019/index.php>

## Summary

Day 1 (2 Dec) – Workshop and tutorial.

Day 2 (3 Dec) – Opening, Keynotes, presentations, tutorial, reception.

Day 3 (4 Dec) – Keynotes, presentations, DST sessions, banquet.

Day 4 (5 Dec) – Keynote, tutorial, presentations.

# Program Summary

2/Dec, Mon

	<p>L u n c h</p> <p>Session1c1: 1:30-3:30pm, Room Banksia2 <b>IMA Workshop</b> Organizer: Inna Kolyskhina, Simeon Simoff</p> <p>Session 1c2: 1:30-3:30pm, Room Banksia1 <b>Tutorial: Causality</b> Presenter: Mingming Gong</p>	<p>t e a</p> <p>Session1c1 continues: 4:00-5pm, Banksia2</p> <p>-----</p> <p>Session 1c2 continues: 4:00-5pm pm, Banksia1</p>
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3/Dec, Tue

<p>Session 2a: 9:00-10:30 Room Ballroom Opening &amp; Keynote Chairs: Jiuyong Li, Lin Liu</p> <p><b>Opening speaker: Simon Beecham</b></p> <p><b>Keynote: Visual Question Answering, and why we're asking the wrong questions</b></p> <p>Speaker: <b>Anton van den Hengel</b></p>	<p>t e a</p> <p>11:00-12:40pm</p> <p>-----</p> <p>Session 2b1: Room Banksia1 <b>AI presentation: NLP &amp; text</b> papers: 76,9,79,97 Chair: Joerg Frochte</p> <p>Session 2b2: Room Ballroom <b>AI presentations: Image processing</b> Papers: 34,42,83,59 Chair: Reza Khoshkangini</p> <p>-----</p> <p>Session 2b3: Room Banksia2 <b>AusDM Research Track I:</b> Papers: 53,64,30,58 Chair: Simeon Simoff</p>	<p>L u n c h</p> <p>Session 2c: 1:30-2:30pm Room Ballroom</p> <p><b>Keynote: Forgotten Questions in Brain-inspired Computing</b></p> <p>Speaker: <b>Xin Yao</b></p> <p>Chair: Thuc Le</p>	<p>2:40-3:30pm</p> <p>-----</p> <p>Session 2d1: Room Banksia1 <b>AI Presentations: NLP &amp; Query</b> Papers: 10,14 Chair: Yue Xu</p> <p>-----</p> <p>Session 2d2: Room Ballroom <b>Tutorial: Adversarial ML</b> Speaker: Erfani and Ma,</p> <p>-----</p> <p>Session 2d3: Room Banksia2 <b>AusDM AusDM Research Trach II &amp; Application Track I</b> Papers: 7,25 Chair: Peter Christen</p>	<p>t e a</p> <p>4:00-5:40pm</p> <p>-----</p> <p>Session 2d1: Continue Papers: 31,33,48,32</p> <p>-----</p> <p>Session 2d2: Continue</p> <p>-----</p> <p>Session 2d3: Continue Papers: 13, 39, 42</p>	<p>6:00- 7:30pm</p> <p>Cocktail reception</p> <p>In the Foyer outside the Ballroom.</p>
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4/Dec, Wed

<p>Session 3a: 9:00-10:00 Ballroom</p> <p><b>Keynote: AI, past, present, future</b></p> <p>Speaker: <b>Dale Lambert</b></p> <p>Chair: Yanchang Zhao</p>	<p>t e a</p> <p>10:30-12:40pm</p> <p>-----</p> <p>Session 3b1: Room Banksia1 <b>AI presentations: Machine learning</b> Papers: 37,39,41,43,56 Chair: Xiaoying Gao, VUW</p> <p>-----</p> <p>Session 3b2: Room Ballroom <b>DST session (program)</b> Organizer: Asanka, Ao, Hui Invited talk; Papers: 22,52,92</p> <p>-----</p> <p>Session 3b3: Room Banksia2 <b>AusDM Research Track III</b> Papers: 20,63,41,47,57 Chair: Warwick Graco</p>	<p>L u n c h</p> <p>Session 3c: 1:30-2:30pm Ballroom</p> <p><b>Keynote: In AI we trust ... or should we? Show us the stress testing!</b></p> <p>Speaker: <b>Kate Smith- Miles</b></p> <p>Chair: James Bailey</p>	<p>2:40-3:30</p> <p>-----</p> <p>Session 3d1: Room Banksia1 <b>AI presentations: Knowledge &amp; representation.</b> Papers: 7,26 Chair: Adam Saulwick, DST</p> <p>-----</p> <p>Session 3d2: Room Ballroom <b>DST session (program)</b> Organizer: Asanka, Ao, Hui Invited talk; demos.</p> <p>-----</p> <p>Session 3d3: Room Banksia2 <b>AusDM Application Track II &amp; Industry Show Case</b> Papers: 11, 28 Chair: Sebastien Wong</p>	<p>t e a</p> <p>4:00-5:40</p> <p>-----</p> <p>Session 3d1: Continue Papers: 27,36,81,87</p> <p>-----</p> <p>Session 3d2: Continue</p> <p>-----</p> <p>Session 3d3: Continue Papers: 5,8,23</p>	<p>7:00pm</p> <p>Conf Banquet</p> <p>In the Ballroom.</p>
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5/Dec, Thu

<p>Session 4a: 9:00-10:00 Ballroom</p> <p><b>Keynote: Machine Learning for Data Streams</b></p> <p>Speaker: <b>Albert Bifet</b></p> <p>Chair: Jixue Liu</p>	<p>t e a</p> <p>10:30-12:40pm</p> <p>-----</p> <p>Session 4b1: Room Banksia1 <b>AI presentations: multiagent, game</b> Papers: 29,65,96,104 Chair: Van Nguyen, DST</p> <p>-----</p> <p>Session 4b2: Room Ballroom <b>AI presentations: evolutionary</b> Papers: 4, 20, 45, 80,82 Chair: Hui Ma</p> <p>-----</p> <p>Session 4b3: Room Banksia2 <b>AusDM + AI</b> presentations AI Papers: 25,115 AusDM Application Track III papers: 12,50,65 Chair: Carla Wadewitz</p>	<p>L u n c h</p> <p>1:30-3:40pm</p> <p>-----</p> <p>Session 4c1: Room Banksia1 <b>AI Presentations: Cognitive, AI applications</b> Papers: 8,78,86,99 Chair: Masud Karim</p> <p>-----</p> <p>Session 4c2: Room Ballroom <b>Tutorial: Deep Learning Future</b> Speaker: Abbasnejad</p> <p>-----</p> <p>Session 4c3: Room Banksia2 <b>AI Presentations: Bayes Optimization</b> Papers: 16,18,23,77,102 Chair: Wolfgang Mayer</p>	<p>t e a</p>
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## Day 1 (2 Dec) – workshop and tutorial

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Lunch: 12:30-1:30pm, Open Area outside the Ballroom

Session1c1: 1:30-3:30pm, Room Banksia2, Workshop

First Annual International Workshop on Interpretability: Methodologies and Algorithms ([IMA 2019](#)).

Organizers: Inna Kolyshkina, Simeon Simoff

Session1c2: 1:30-3:30pm, Room Banksia1, Tutorial

Title: From Statistical to Causal Learning

Speaker: Dr Mingming Gong from the University of Melbourne

Afternoon Tea Break: 3:30-4:00am, Open Area outside the Ballroom

Session1c1 Continues: 4:00-5:00pm Room Banksia2, Workshop

IMA 2019 Workshop Continues.

Session1c2 Continues: 4:00-5:00pm Room Banksia1, Tutorial

Title: From Statistical to Causal Learning

[End of the day]

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## Day 2 (3 Dec) – Opening, keynotes, presentations, tutorial, reception.

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### Session 2a: 9:00-10:30, Room Ballroom, Opening & Keynote

Chairs: Professor Jiuyong Li, A/Professor Lin Liu

Opening speaker: Professor Simon Beecham, DVC Research UniSA

Keynote: Visual Question Answering, and why we're asking the wrong questions

Speaker: Professor Anton van den Hengel, the University of Adelaide

### Morning Tea break: 10:30-11:00am, Open Area outside the Ballroom

[Three parallel sessions: 2b1, 2b2, 2b3]

### Session 2b1: 11:00-12:40, Room Banksia1, AI Presentations – Natural Language Processing (NLP) and text

Chair: Professor Joerg Frochte, Bochum University of Applied Sciences, Germany.

Papers are presented in the following order; each paper is allocated 25minutes including the time for questions.

- 76 Kosisochukwu Madukwe and Xiaoying Gao.  
The Thin Line Between Hate and Profanity
- 9 Dongqiang Yang, Yanqin Yin, Tonghui Han and Hongwei Ma.  
Using Feature Filtering Metrics as Meta-dimensions in Constructing Distributional Representations
- 79 Felix Kuhr, Tanya Braun, Magnus Bender and Ralf Möller.  
To Extend or Not to Extend? Context-specific Corpus Enrichment
- 97 Tran Diem Hanh Nguyen, Yue Xu and Yuefeng Li.  
Frequent Semantic Patterns for Document Relevance Ranking

### Session 2b2: 11:00-12:40, Room Ballroom, AI Presentations – Image processing

Chair: Dr PhD, Reza Khoshkangini, Halmstad University, Sweden

Papers are presented in the following order; each paper is allocated 25minutes including the time for questions.

- 34 Yingdi Zhang, Zelin Shi and Yunpeng Liu. LumNet:  
A deep neural network for Lumbar Paraspinal Muscles Segmentation
- 42 Attaullah Sahito, Bernhard Pfahringer and Attaullah Sahito.  
Semi-Supervised Learning using Siamese Networks
- 83 Dashun Pei and Linhua Jiang.  
Intrinsically Motivated Active Perception For Multi-Areas View Tasks
- 59 Juhini Desai, Bach Nguyen and Bing Xue.  
Multi-Label Feature Selection Using Particle Swarm Optimization: Novel Initialization Mechanisms

## Session 2b3: 11:00-12:40, Room Banksia2, AusDM Research Track I Presentations

Chair: Professor Simeon Simoff

Papers are presented in the following order; each paper is allocated 25minutes including the time for questions.

- 53 An Efficient Risk Data Learning with LSTM RNN  
Ka Yee Wong and Raymond Wong
- 64 Estimating County Health Indices using Graph Neural Networks  
Hung Nguyen, Thin Nguyen and Thanh Nguyen
- 30 Applying Softmax Classifiers to Open Set  
Darren Webb
- 58 Topic Representation using Semantic-based Patterns  
Dakshi Kapugama Geeganage, Yue Xu and Yuefeng Li

**Lunch: 12:40-1:30pm, Open Area outside the Ballroom**

## Session 2c: 1:30-2:30, Room Ballroom, Keynote

Chair: Dr Thuc Le

Keynote: Forgotten Questions in Brain-inspired Computing?

Speaker: Professor Xin Yao, Southern University of Science and Technology, China and University of Birmingham, UK

[Transit to the three parallel sessions: 2d1, 2d2, 2d3]

## Session 2d1: 2:40-3:30pm, Banksia1, AI Presentations, NLP and query processing

Chair: Yue Xu

Papers are presented in the following order; each paper is allocated 25minutes including the time for questions.

- 10 Marcel Gehrke, Tanya Braun and Ralf Möller.  
Efficient Multiple Query Answering in Switched Probabilistic Relational Models
- 14 David Toman and Grant Weddell.  
Finding ALL Answers to OBDA Queries using Referring Expressions

## Session 2d2: 2:40-3:30pm, Ballroom, Tutorial

Title: Deep learning security: adversarial attack and defence

Speakers: Dr Sarah Erfani and Dr Xingjun Ma, University of Melbourne

## Session 2d3: 2:40-3:30pm, Banksia2, AusDM Research Track II & Application Track I Presentations

Chair: Professor Peter Christen, ANU

Papers are presented in the following order; each paper is allocated 25minutes including the time for questions.

- 7 Outlier Detection based Accurate Geocoding of Historical Addresses  
Nishadi Kirielle, Peter Christen and Thilina Ranbaduge
- 25 Show me your friends and I'll tell you who you are. Finding anomalous time series by conspicuous cluster transitions  
Martha Tatusch, Gerhard Klassen, Marcus Bravidor and Stefan Conrad

**Afternoon Tea break: 3:30-4:00pm, Open Area outside the Ballroom**

[Parallel sessions continue]

## Session 2d1 (Cont.), 4:00-5:40pm, Banksia1: AI Presentations, NLP and query processing

- 31 Csaba Veres and Bjorn-Helge Sandblast.  
A Machine Learning Benchmark with Meaning: Learnability and Verb Semantics
- 33 Sakae Mizuki and Naoaki Okazaki.  
Analyzing the Variation Property of Contextualized Word Representations
- 48 Hamish Huggard, Aaron Zhang, Edmond Zhang and Yun Sing Koh.  
Feature Importance for Biomedical Named Entity Recognition
- 32 Usman Naseem and Shah Khalid Khan.  
Deep Hybrid Contextual Word Representation for Twitter Sentiment Analysis

## Session 2d2 (Cont.): 4:00-5:40pm, Ballroom, Tutorial

## Session 2d3 (Cont.): 4:00-5:40pm, Banksia2, AusDM Presentations

- 13 Interactive Deep Metric Learning for Healthcare Cohort Discovery  
Yang Wang, Guodong Long, Xueping Peng, Allison Clarke, Robin Stevenson and Leah Gerrard
- 39 Readiness of Smartphones for Data Collection and Data Mining with an Example Application in Mental Health  
Darren Yates and Zahid Islam
- 42 Curtailing the Tax Leakages by Nabbing Return Defaulters in Taxation System  
Ms Priya, Jithin Mathews, Sandeep Kumar, Suryamukhi K and Sobhan Babu

Cocktail Reception: 6:00-7:30pm, Open Area outside the Ballroom

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## Day 3 (4 Dec) – Keynotes, presentations, DST sessions, banquet.

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### Session 3a: 9:00-10:00, Room Ballroom, Keynote

Chair: Dr Yanchang Zhao

Keynote: Artificial Intelligence: Past, Present, Future

Speaker: Dr Dale Lambert, DST Group

### Morning Tea break: 10:00-10:30am, Open Area outside the Ballroom

[Three parallel sessions: 3b1, 3b2, 3b3]

### Session 3b1: 10:30 am – 12:40pm, Banksia1, AI Presentations – Machine Learning

Chair: Xiaoying Gao, Victoria University of Wellington, New Zealand

Papers are presented in the following order; each paper is allocated 25minutes including the time for questions.

- 37 Jia Shun Low, Zahra Ghafoori and Christopher Leckie.  
Online K-Means Clustering with Lightweight Coresets
- 39 Leonardo Anjoletto Ferreira, Thiago F. dos Santos, Reinaldo A. C. Bianchi and Paulo E. Santos.  
Solving safety problems with ensemble reinforcement learning
- 41 Fathima Nuzla Ismail, Brendon J. Woodford and Sherlock A. Licorish.  
Evaluating the boundaries of Big Data environments for Machine Learning
- 43 Marcus Suresh, Ronnie Taib, Yanchang Zhao and Warren Jin.  
Sharpening the BLADE: Missing Data Imputation using Supervised Machine Learning
- 56 Iqbal Madakkatel, Belinda Chiera and Mark McDonnell.  
Predicting financial well-being using observable features and gradient boosting

### Session 3b2: 10:30 am – 12:40pm, Ballroom, DST Session1

Chair: Hui Ping, Asanka Kekirigoda, Zhuoyun Ao, DST

Detailed program: ([program](#))

Introduction to the Defence session, Research Leader, Contested Communications Branch, DST

Invited talk:

AIRCDRE Philip Gordon, Commander, Air Warfare Center, Edinburgh

- 22 Glenn Moy and Slava Shekh.  
The Application of AlphaZero to Wargaming

Arvind Rajagopalan, Duong Nguyen and Jijoong Kim.

- 52 Defeating Kinematically Superior Threats with Lower Performance Interceptor Team applying Reachability Driven Regret-matching



Budi Kurniawan, Peter Vamplew and Michael Papsimeon.

- 92 An Empirical Study of Reward Structures for Actor-Critic Reinforcement Learning in Air Combat Manoeuvring Simulation

## Session 3b3: 10:30 am – 12:40pm, Banksia2, AusDM Research Track III Presentations

Chair: Professor Warwick Graco, ATO

Papers are presented in the following order; each paper is allocated 25minutes including the time for questions.

- 20 A Learning Approach for Ill-Posed Optimisation Problems  
Joerg Frochte and Stephen Marsland
- 63 SPDF: Set Probabilistic Distance Features for Prediction of Population Health Outcomes via Social Media  
Hung Nguyen, Thin Nguyen and Thanh Nguyen
- 41 Joint Sequential Data Prediction with Multi-stream Stacked LSTM Network  
Toan Nguyen Thanh, Orçun Gümüş, Tam Nguyen Thanh, Hung Nguyen Quoc Viet and Jun Jo
- 47 Using Transfer Learning to Detect Phishing in Countries with a Small Population  
Wernsen Wong, Yun Sing Koh and Gill Dobbie
- 57 Improving Clustering via a Fine-Grained Parallel Genetic Algorithm with Information Sharing  
Storm Bartlett and Zahid Islam

**Lunch: 12:40-1:30pm, Open Area outside the Ballroom**

## Session 3c: 1:30-2:30pm, Room Ballroom, Keynote

Chair: Professor James Bailey, University of Melbourne

Keynote: In AI we trust ... or should we? Show us the stress testing!

Speaker: Professor Kate Smith-Mile, University of Melbourne

[Transit to three parallel sessions: 3d1, 3d2, 3d3]

## Session 3d1: 2:40-3:30pm, Banksia1, AI Presentations, Knowledge & representations

Chair: Dr Adam Saulwick, DST

Papers are presented in the following order; each paper is allocated 25minutes including the time for questions.

- 7 Tanya Braun and Ralf Möller.  
Exploring Unknown Universes in Probabilistic Relational Models

- 26 Reza Khoshkangini, Maria Silvia Pinni and Francesca Rossi.  
Constructing CP-nets from Users Past Selection

## Session 3d2: 2:40-3:30pm, Ballroom, DST Session2

Invited Talk - **Lt Col Robin Smith**, Robotic & Autonomous Systems, Future Land Warfare Branch, Australian Army

Defence Presentations (Part I)

## Session 3d3: 2:40-3:30pm, Banksia2, AusDM Application Track II & Industry Show Case

Chair: A/Professor Sebastien Wong,

Papers are presented in the following order; each paper is allocated 25minutes including the time for questions.

- 11 Network Path Estimation in Uncertain Data via Entity Resolution  
Dean Philp, Naomi Chan and Wolfgang Mayer
- 28 Data Replication optimization using Simulated Annealing  
Chee Keong Wee and Richi Nayak

**Afternoon Tea break: 3:30-4:00 pm, Open Area outside the Ballroom**

[Parallel sessions continue]

## Session 3d1 (Cont.): 4:00 – 5:40pm, Banksia1, AI Presentations – knowledge & representations

- 27 Aaron Hunter and John Agapeyev.  
An Efficient Solver for Parametrized Difference Revision
- 36 Abdus Salam, Rolf Schwitter and Mehmet A. Orgun.  
Answering Why-Questions using Probabilistic Logic Programming
- 81 Ke Hou, Jiaying Liu, Yin Peng, Bo Xu, Ivan Lee and Feng Xia.  
DINE: A Framework for Deep Incomplete Network Embedding
- 87 Kaiyuan Zhang, Shuo Yu, Liangtian Wan, Jianxin Li and Feng Xia.  
Predictive Representation Learning in Motif-based Graph Networks

## Session 3d2 (Cont.): 4:00 – 5:40pm, Ballroom, DST Session2

Invited Talk - **Dr Don Gossink**, Chief Scientist, Consunet Pty Ltd.

Defence Presentations (Part II)

Closing Remarks by Research Leader, Contested Communications Branch, DST

## Session 3d3 (Cont.): 4:00 – 5:40pm, Banksia2, AusDM Research Track II & Industry Show Case

- 5 Predictive analytics for tertiary learners in New Zealand who are at risk of dropping out of education  
Wenyang Xu, Scott Luo, Stephanie Hacksley, Tim Trewinnard, Stuart Cambridge and Syen Jien Nik
- 8 Digital Profiling  
Warwick Graco, Tony Nolan, Stewart Turner and Hari Koesmarno
- 23 An Industrial Showcase of the Application of Text Mining in Learning Management Systems  
Alireza Ahadi

**Conference Banquet, 7:00-11:00pm, Ballroom**

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## Day 4 (5 Dec) – Keynote, tutorial, presentations.

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### Session 4a: 9:00-10:00, Room Ballroom, Keynote

Chair: Dr Jixue Liu, University of South Australia

Keynote: Machine Learning for Data Streams

Speaker: Professor Albert Bifet, University of Waikato; Télécom ParisTech

### Morning Tea break: 10:00-10:30am, Open Area outside the Ballroom

[Three parallel sessions: 4b1, 4b2, 4b3]

### Session 4b1: 10:30-12:40, Banksia1, AI Presentations, Multiagent, game

Chair: Dr Van Nguyen, DST

Papers are presented in the following order; each paper is allocated 25minutes including the time for questions.

- 29 Yuchen Wang, Fenghui Ren and Minjie Zhang.  
Helping an Agent Reach a Different Goal by Action Transfer in Reinforcement Learning
- 65 Nicolas Perez and John Oommen.  
Multi-Minimax: A New AI Paradigm for Simultaneously-played Multi-Player Games
- 96 Francisco Cruz, Richard Dazeley and Peter Vamplew.  
Memory-based Explainable Reinforcement Learning
- 104 Yuko Sakurai and Satoshi Oyama.  
Analysis of Coalition Formation in Cooperative Games Using Crowdsourcing and Machine Learning

### Session 4b2: 10:30-12:40, Ballroom, AI Presentations, Evolutionary computing

Chair: Dr Hui Ma, Victoria University of Wellington, NZ

Papers are presented in the following order; each paper is allocated 25minutes including the time for questions.

- 4 Christian Blum, Dhananjay Thiruvady, Andreas Ernst, Matthias Horn and Günther R. Raidl.  
A Biased Random Key Genetic Algorithm with Rollout Evaluations for the Resource Constraint Job Scheduling Problem
- 20 Donghao Zhang, Yang Song, Dongnan Liu, Chaoyi Zhang, Yicheng Wu, Heng Wang, Fan Zhang, Yong Xia, Lauren O'donnell and Weidong Cai.  
Efficient 3D Depthwise and Separable Convolutions with Dilation for Brain Tumor Segmentation
- 45 Atiya Masood, Gang Chen, Yi Mei, Harith Al-Sahaf and Mengjie Zhang.  
Genetic Programming with Pareto Local Search for Many-Objective Job Shop Scheduling
- 80 Yanchang Zhao.  
Optimising Pump Scheduling for Water Distribution Networks

- 82 Chen Wang, Hui Ma, Gang Chen and Sven Hartmann.  
Towards Robust Web Service Composition with Stochastic Service Failures Based on a Genetic Algorithm

## Session 4b3: 10:30-12:40, Banksia2, AI & AusDM Presentations

Chair: Dr Carla Wadewitz, Flinders University

Papers are presented in the following order; each paper is allocated 25minutes including the time for questions.

### AI Papers

- 25 Naoya Higuchi, Yasunobu Imamura, Tetsuji Kuboyama, Kouichi Hirata and Takeshi Shinohara.  
Fast Filtering for Nearest Neighbor Search by Sketch Enumeration without Using Matching
- 115 Joel Dabrowski and Ashfaqur Rahman.  
Sequence-to-Sequence Imputation of Missing Sensor Data

### AusDM papers

- 12 Interpretability of Machine Learning Solutions in Industrial Decision Engineering  
Inna Kolyshkina and Simeon Simoff
- 50 Customer Wallet Share Estimation For Manufacturers Based on Transactions Data  
Xiang Li, Ali Shemshadi, Lukasz Piotr Olech and Zbigniew Michalewicz
- 65 Classifying accidents using recurring concept drift  
Robert Anderson, Yun Sing Koh and Gill Dobbie

## Lunch: 12:40-1:30pm, Open Area outside the Ballroom

[Three parallel sessions: 4c1, 4c2, 4c3]

## Session 4c1: 1:30-3:40pm, Banksia1, AI Presentations, Cognitive, AI applications

Chair: Dr Masud Karim, University of South Australia

Papers are presented in the following order; each paper is allocated 25minutes including the time for questions.

- 8 George Montanez, Jonathan Hayase, Julius Lauw, Dominique Macias, Akshay Trikha and Julia Vendemiatti.  
The Futility of Bias-Free Learning and Search
- 78 Nicos Isaak and Loizos Michael. WinoFlexi:  
A Crowdsourcing Platform for the Development of Winograd Schemas
- 86 Joshua Kim, Greyson Kim and Kalina Yacef.  
Detecting depression in dyadic conversations with multimodal narratives and visualizations
- 99 Neda Afzaliseresht, Qing Liu and Yuan Miao.  
An Explainable Intelligence Model for security event analysis

## Session 4c2: 1:30-3:40pm, Ballroom, Tutorial

Title: Deep learning methods, practices and applications

Speaker: Ehsan Abbasnejad, University of Adelaide

## Session 4c3: 1:30-3:40pm, Banksia2, AI Presentations, Bayesian Optimization

Chair: Dr Wolfgang Mayer, University of South Australia

Papers are presented in the following order; each paper is allocated 25minutes including the time for questions.

- 16 Anil Ramachandran, Sunil Gupta, Santu Rana and Svetha Venkatesh.  
Information-theoretic Multi-Task Learning framework for Bayesian Optimisation
- 18 Arun Kumar Anjanapura Venkatesh, Santu Rana, Cheng Li, Sunil Gupta, Alistair Shilton and Svetha Venkatesh.  
Bayesian Optimisation for Objective Functions with Varying Smoothness
- 23 Phuc Luong, Sunil Gupta, Dang Nguyen, Santu Rana and Svetha Venkatesh.  
Bayesian Optimization with Discrete Variables
- 77 Baligh Al-Helali, Qi Chen, Bing Xue and Mengjie Zhang.  
Genetic Programming for Imputation Predictor Selection and Ranking in Symbolic Regression with High-dimensional Incomplete Data
- 102 Deepthi Kuttichira, Sunil Gupta, Dang Nguyen, Santu Rana and Svetha Venkatesh.  
Model Compromise Detection Using Bayesian Optimization

**Afternoon Tea break: 3:40-4:00pm, Open Area outside the Ballroom**

[End of the conferences]

Have a great trip back home. Merry Christmas and Happy New Year.