AusDM 2012 Conference Program

Wednesday 5 December

Time	Sessions
8:30 – 9:15	Registration
9:15 – 9:30	AI opening ceremony
9:30 – 10:30	AI keynote: *Joseph Halpern*, Constructive Decision Theory: Decision Theory with Subjective States and Outcomes
Coffee break	
11:00 – 11:20	AusDM opening ceremony
11:20 – 12:20	**Session 1: Text mining and data clustering** Detecting Topic Labels for Tweets by Matching Features from Pseudo-Relevance Feedback *Jing Zhang, Derek Yu-Hsn Liu, Kok-Leong Ong, Zhijie Li and Ming Li* Unsupervised Text Segmentation using LDA and MCMC *Kaimin Yu, Zhe Li, Genliang Guan, Zhiyong Wang and David Feng* CRUDAW: A Novel Fuzzy Technique for Clustering Records Following User Defined Attribute Weights *Md Anisur Rahman and Md Zahidul Islam*
Lunch break	
1:30 – 2:30	Keynote: *Sanjay Chawla*, DATA = NORMAL + ANOMALOUS + NOISE
2:30 – 3:10	**Session 2: Bioinformatics** GOtoGene: A Method for Determining the Functional Similarity among Gene Products *Kamal Taha* Functional Visualisation of Genes using Singular Value Decomposition *Hamid Ghous, Paul Kennedy, Daniel Catchpoole and Nicholas Ho*
Coffee break	
3:40 – 5:00	**Session 3: Temporal, spatial and sequential data** A non-time series approach to vehicle related time series problems *Jonathan Wells, Kai Ming Ting and Chandrasiri Naiwala* Variance-wise Segmentation for a Temporal-Adaptive SAX *Chao Sun, David Stirling, Christian Ritz and Claude Sammut* Coding of Non-Stationary Sources as a Foundation for Detecting Change Points and Outliers in Binary Time-Series *Peter Sunehag, Wen Shao and Marcus Hutter* ABC-SG: A New Artificial Bee Colony Algorithm-Based Distance of Sequential Data Using Sigma Grams *Muhammad Marwan Muhammad Fuad*
5:00 – 6:00	Conference reception (Venue: Conference hotel)

Thursday 6 December

Time	Sessions
9:30 – 10:30	AI keynote: *Mary O'Kane*, AI in Australia – Early Days & Current Impact
	Coffee break
11:00 – 12:20	Session 4: Classification Improving Classifications for Cardiac Autonomic Neuropathy Using Multi-level Ensemble Classifiers and Feature Selection Based on Random Forest *Andrei Kelarev, Andrew Stranieri, John Yearwood, Jemal Abawajy and Herbert Jelinek* Combining Classifiers in Multimodal Affect Detection *Md. Sazzad Hussain, Hamed Monkaresi and Rafael A. Calvo* Application of Tree-structured Data Mining for Analysis of Process Logs in XML format *Dang Bach Bui, Fedja Hadzic and Michael Hecker* Associative Classification using a Bio-Inspired Algorithm *Omar S. Soliman, Roba Bahgat and Amr Adly*
	Lunch break
1:30 – 2:30	Keynote: *Longbing Cao*, Non-iidness: Coupled Object and Pattern Analysis
2:30 – 3:10	Session 5: Privacy An Iterative Two-Party Protocol for Scalable Privacy-Preserving Record Linkage *Dinusha Vatsalan and Peter Christen* VICUS - A Noise Addition Technique for Categorical Data *Helen Giggins and Ljiljana Brankovic*
	Coffee break
3:40 – 4:20	Session 6: Applications I Cartesian Genetic Programming for Trading: A Preliminary Investigation *Michael Mayo* A Comparative Study of using various machine learning and pattern recognition Algorithms to Detect Brain Abnormalities *Lavneet Singh and Girija Chetty*
4:20 – 5:20	AI Panel: AI in Australasia -- the Past Twenty-Five Years
6:30 – 9:00	Conference dinner Venue: Nick's Bar & Grill Restaurant, The Promenade, King St Wharf

Friday 7 December

Time	Sessions
9:30 – 10:30	AI keynote: *Mamoru Kaneko*, Epistemic Logic Approach to Game Theory and Inductive Game Theory
Coffee break	
11:00 – 12:20	Session 7: Social network analysis and collaborative filtering Indirect Weighted Association Rules Mining for Academic Network Collaboration Recommendations *Yun Sing Koh and Gill Dobbie* Using network evolution theory and singular value decomposition method to improve accuracy of link prediction in social networks *Qinxue Meng and Paul Kennedy* Learning Personalized Tag Ontology from User Tagging Information *Endang Djuana, Yue Xu and Yuefeng Li* A Collaborative Filtering Recommendation System Combining Semantics and Bayesian Reasoning *Jialing Li, Li Li, Xiao Wen and Jianwei Liao*
Lunch break	
1:30 – 2:50	Session 8: Applications II Evaluating the Performance of Several Data Mining Methods for Predicting Irrigation Water Requirement *Mahmood Khan, Md. Zahidul Islam and Mohsin Hafeez* Anytime Algorithms for Mining Groups with Maximum Coverage *Satya Gautam Vadlamudi, Partha Pratim Chakrabarti and Sudeshna Sarkar* Mining cluster-based patterns for elder self-care behaviour *Yu-Shiang Hung, Kuei-Ling B. Chen, Chi-Ta Yang and Guang-Feng Deng* Data Guided Approach to Generate Multi-dimensional Schema for Targeted Knowledge Discovery *Muhammad Usman, Russel Pears and Alvis Fong*
Coffee break	
3:40 – 4:40	IAPA session
4:40 – 4:50	Closing address

Conference Venue

The conference is held at Sydney Harbour Marriott Hotel, one of Sydney's premier harbourside hotels at Circular Quay. The venue overlooks the sparkling Sydney Harbour and the world famous Sydney Opera House, and is just moments away from the historic Rocks district.

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