

# The 12<sup>th</sup> Australasian Data Mining & Analytics Conference Brisbane, Australia

## Day 1 – 27 November 2014

8:30 - 9:15	Registration	
9:15 - 9:30	AusDM 2014 Opening	
9:30-10:30	<b>Session 1: Clustering</b> <ul style="list-style-type: none"> <li>• Automatic Detection of Cluster Structure Changes using Relative Density Self-Organizing Maps by <i>Denny, Pandu Wicaksono and Ruli Manurung</i></li> <li>• Market Segmentation of EFTPOS Retailers by <i>Ashishkumar Singh, Grace Rumantir and Annie South</i></li> <li>• Hartigan's Method for K-modes Clustering and Its Advantages by <i>Zheng Rong Xiang and Zahidul Islam</i></li> </ul>	
10:30 - 11:00	Coffee Break	
11:00 - 12:20	<b>Session 2: Linkage, Fusion &amp; Cleaning</b> <ul style="list-style-type: none"> <li>• Tree Based Scalable Indexing for Multi-Party Privacy Preserving Record Linkage by <i>Thilina Ranbaduge, Peter Christen and Dinusha Vatsalan</i></li> <li>• Detecting Digital Newspaper Duplicates with Focus on eliminating OCR errors by <i>Yeshey Peden and Richi Nayak</i></li> <li>• The Schema Last Approach to Data Fusion by <i>Neil Brittliff and Dharmendra Sharma</i></li> <li>• A Triple Store Implementation to support Tabular Data by <i>Neil Brittliff and Dharmendra Sharma</i></li> </ul>	
12:20-1:30	Lunch	
1:30 - 3:10	<b>Session 3: Machine Learning</b> <ul style="list-style-type: none"> <li>• Factors Influencing Robustness and Effectiveness of Conditional Random Fields in Active Learning Frameworks by <i>Mahnoosh Kholghi, Laurianne Sitbon, Guido Zuccon and Anthony Nguyen</i></li> <li>• Dynamic Class Prediction with Classifier Based Distance Measure by <i>Senay Yasar Saglam and Nick Street</i></li> <li>• Improving Scalability and Performance of Random Forest Based Learning-to-Rank Algorithms by Aggressive Subsampling by <i>Muhammad Ibrahim and Mark Carman</i></li> <li>• Pruned Annular Extreme Learning Machine Optimization based on RANSAC Multi Model Response Regularization by <i>Lavneet Singh and Girija Chetty</i></li> <li>• Identifying Product Families Using Data Mining Techniques in Manufacturing Paradigm by <i>Israt Jahan Chowdhury and Richi Nayak</i></li> </ul>	<b>Workshop: R and Data Mining – Part 1</b> By Dr. Yanchang Zhao, <a href="http://RDataMining.com">RDataMining.com</a>

3:10-3:40	Coffee Break	
3:40 - 4:40	<p><b>Session 4: Health &amp; Bioinformatics</b></p> <ul style="list-style-type: none"> <li>• Evolving Wavelet Neural Networks for Breast Cancer Classification by <i>Maryam Khan, Stephan Chalup and Alexandre Mendes</i></li> <li>• Comparison of athletic performances across disciplines anisability classes by <i>Chris Barnes</i></li> <li>• Locality-Sensitive Hashing for Protein Classification by <i>Lawrence Buckingham, James Hogan, Shlomo Geva and Wayne Kelly</i></li> </ul>	<p><b>Workshop: R and Data Mining – Part 2</b> By Dr. Yanchang Zhao, RDataMining.com</p>
6:45 – 10:00	Conference Banquet - Kookaburra River Queens Eagle Street Pier	

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## Day 2 – 28 November 2014

Session	
9:00 - 9:30	Registration
9:30-10:30	<b>Keynote 1</b> Learning in sequential decision problems Prof Peter Bartlett University of California, Berkeley, USA
10:30 - 11:00	Coffee Break
11:00 - 12:20	<b>Session 5: Data Mining for Information Retrieval</b> <ul style="list-style-type: none"> <li>• A Case Study of Utilising Concept Knowledge in a Topic Specific Document Collection by <i>Gavin Shaw and Richi Nayak</i></li> <li>• Decreasing Uncertainty for Improvement of Relevancy Prediction by <i>Libiao Zhang, Yuefeng Li and Moch Arif Bijaksana</i></li> <li>• Pattern-based Topic Modelling for Query Expansion by <i>Yang Gao, Yue Xu and Yuefeng Li</i></li> <li>• Content Based Image Retrieval Using Signature Representation by <i>Dinesha Chathurani Nanayakkara Wasam Uluwitige, Shlomo Geva, Vinod Chandran and Timothy Chappell</i></li> </ul>
12:20-1:30	Lunch
1:30 - 2:30	<b>Keynote 2</b> Making Sense of a Random World through Statistics Prof Geoff McLachlan University of Queensland, Brisbane, Australia
2:30 - 3:10	<b>Session 6: Sensor Networks</b> <ul style="list-style-type: none"> <li>• Towards Social Media as a Data Source for Opportunistic Sensor Networking by <i>James Meneghello, Kevin Lee and Nik Thompson</i></li> <li>• Data Cleansing during Data Collection from Wireless Sensor Networks by <i>Md Zahidul Islam, Quazi Mamun and Md Geaur Rahman</i></li> </ul>
3:10-3:40	Coffee Break
3:40 - 4:40	<b>Session 7: Collaborative filtering &amp; Recommendation</b> <ul style="list-style-type: none"> <li>• An Efficient Tagging Data Interpretation and Representation Scheme for Item Recommendation by <i>Noor Ifada and Richi Nayak</i></li> <li>• A Multidimensional Collaborative Filtering Fusion Approach with Dimensionality Reduction by <i>Xiaoyu Tang, Yue Xu, Ahmad Abdel-Hafez and Shlomo Geva</i></li> <li>• Real-time Collaborative Filtering Recommender Systems by <i>Huizhi Liang, Haoran Du and Qing Wang</i></li> </ul>
4:40 - 5:00	Conference close + best paper awards