

Conference Programme

Thursday, 27 November, 2008

08:00 - 09:00 **Arrival Coffee**

09:00 - 09:05 **Opening and Welcome**

09:15 - 10:15 **KEYNOTE - Ballroom 1**

Minors as Miners: Modelling and Evaluating Ontological and Linguistic Learning
David M.W. Powers, *Flinders University*

10:15 - 10:40 Coffee break

10:40 - 12:40 **Session 1: Text Mining - Ballroom 1**

10:40 - 11:10 *Clustering and Classification of Maintenance Logs using Text Data Mining*
Brett Edwards, Michael Zatorsky, Richi Nayak

11:10 - 11:40 *Combining Structure and Content Similarities for XML Document Clustering*
Tien Tran, Richi Nayak, Peter Bruza

11:40 - 12:10 *Structure-Based Document Model with Discrete Wavelet Transforms
and Its Application to Document Classification*
Supphachai Thaicharoen, Tom Altman, Krzysztof Cios

12:10 - 12:40 *Categorical Proportional Difference: A Feature Selection Method for
Text Categorization*
Mondelle Simeon, Robert Hilderman

10:40 - 12:40 **Session 2: Engineering Applications - Colley 1**

10:40 - 11:10 *Indoor Location Prediction Using Multiple Wireless Received Signal Strengths*
Kha Tran, Dinh Phung, Brett Adams, Svetha Venkatesh

11:10 - 11:40 *Evaluation of Malware clustering based on its dynamic behaviour*
Ibai Gurrutxaga, Olatz Arbelaitz, Jesús M^aPérez, Javier Muguerza,
José I. Martín and Iñigo Perona

11:40 - 12:10 *Service-independent payload analysis to improve intrusion detection
in network traffic*
Iñigo Perona, Ibai Gurrutxaga, Olatz Arbelaitz, José I. Martín, Javier Muguerza and
Jesús M^aPérez

12:10 - 12:40 *Graphics Hardware based Efficient and Scalable Fuzzy C-Means Clustering*
S.A. Arul Shalom, Manoranjan Dash, Minh Tue

12:40 - 13:30 Lunch

13:30 - 14:30 **Tutorial - Ballroom 1**

Privacy preserving data sharing and mining
Jiuyong Li, Peter Christen, Vladimir Estivill-Castro and Artak Amirbekyan

13:30 - 14:30 **PhD Consortium - Colley 1**

14:30 - 15:00 Coffee

15:00 - 17:00 **Tutorial continued - Ballroom 1**

Privacy preserving data sharing and mining
Jiuyong Li, Peter Christen, Vladimir Estivill-Castro and Artak Amirbekyan

15:00 - 17:00 **PhD Consortium continued - Colley 1**

19:00 **Conference Dinner**

Friday, 28 November, 2008

08:00 - 09:00 **Arrival Coffee**

09:00 - 10:00 **KEYNOTE - Ballroom 1**

Multi-Strategy Ensemble Learning, Ensembles of Bayesian Classifiers, and the Problem of False Discoveries
Geoff Webb, Monash University

10:00 - 10:30 Coffee break

10:30 - 12:30 **Session 3: Biomedical Data Mining - Ballroom 1**

10:30 - 11:00 *Classification of Brain-Computer Interface Data*
Omar AlZoubi, Irena Koprinska, Rafael Calvo

11:00 - 11:30 *Kernel-based visualisation of genes with the Gene Ontology*
Hamid Ghous, Paul Kennedy, Daniel Catchpoole, Simeon Simoff

11:30 - 12:00 *Comparison of visualization methods of genome-wide SNP profiles in childhood acute lymphoblastic leukaemia*
Ahmad Al-Oqaily, Paul Kennedy, Daniel Catchpoole, Simeon Simoff

12:00 - 12:30 *wFDT - Weighted Fuzzy Decision Trees for Prognosis of Breast Cancer Survivability*
Umer Khan, Hyunjung Shin, Minkoo Kim, Jong Pill Choi

10:30 - 12:00 **Session 4: Association Rules / Frequent Patterns - Colley 1**

10:30 - 11:00 *Rare Association Rule Mining via Transaction Clustering*
Yun Sing Koh, Russel Pears

11:00 - 11:30 *S2MP: Similarity Measure for Sequential Patterns*
Hassan Saneifar, Sandra Bringay, Anne Laurent, Maguelonne Teisseire

11:30 - 12:00 *Mining medical specialist billing patterns for health service management*
Yin Shan, David Jeacocke, D. Wayne Murray, Alison Sutinen

12:30 - 13:30 Lunch

13:30 - 14:30 **KEYNOTE - Ballroom 1**

Volume, Velocity and Variety - Key Challenges for Mining Large Volumes of Multimedia Information
Richard Price, Defence Science and Technology Organisation

14:30 - 15:00 Coffee break

15:00 - 16:30 **Session 5: Approaches for Business and Organisations - Ballroom 1**

15:00 - 15:30 *Priority Driven K-Anonymisation for Privacy Protection*
Xiaoxun Sun, Hua Wang, Jiuyong Li

15:30 - 16:00 *Exploratory Mining over Organisational Communications Data*
Alan Allwright, John Roddick

16:00 - 16:30 *Towards Scalable Real-Time Entity Resolution using a Similarity-Aware Inverted Index Approach*
Peter Christen, Ross Gayler

15:00 - 16:30 **Session 6: Algorithms - Colley 1**

15:00 - 15:30 *On Inconsistencies in Quantifying Strength of Community Structures*
Wen Haw Chong

15:30 - 16:00 *A New Technique for Evaluating Imbalanced Datasets*
Cheng Weng, Josiah Poon

16:00 - 16:30 *LBR-Meta: An Efficient Algorithm for Lazy Bayesian Rules*
Zhipeng Xie