

AI'09 CONFERENCE PROGRAM AT A GLANCE									
Monday 30 Nov 2009	Tuesday 1 Dec 2009		Wednesday 2 December 2009		Thursday 3 December 2009		Friday 4 December 2009		
<b>Registration</b>		<b>08.30</b>	<b>Registration</b>		<b>Registration</b>				
<b>ACISS '09 Tutorials</b>  <b>AI'09 Workshops</b> <b>ACISS'09 Tutorials</b> <b>ACAL'09 Workshops</b>		<b>08.45 – 09.00</b>	<b>Opening Welcome</b>						
		<b>09.00 – 09.50</b>	<b>Keynote Address 1</b> (Prof. Mark Bedau)		<b>Keynote Address 4</b> (Prof. Kate Miles-Smith)		<b>Keynote Address 7</b> (Prof. Andries P. Engelbrecht)		
		<b>09.50 – 10.40</b>	Wed-AM-A1: Ev Comp I (2 papers)	Wed-AM-B1: CV & IP I (2 papers)	Thu-AM-A1: Soft Comp (2 papers)	Thu-AM-B1: Games (2 papers)	Fri-AM-A1: NN (2 papers)	Fri-AM-B1: Agents II (2 papers)	
		<b>10.40</b>	<b>Morning Tea</b>		<b>Morning Tea</b>		<b>Morning Tea</b>		
		<b>10.50 – 12.05</b>	Wed-AM-A2: DM & SL I (3 papers)	Wed-AM-B2: NL & SP I (3 papers)	Thu-AM-A2: DM & SL III (3 papers)	Thu-AM-B2: AI Apps I (3 papers)	Fri-AM-A2: CV & IP II (5 papers)	Fri-AM-B2: NL & SP II (5 papers)	
		<b>12.05 – 12.55</b>	<b>Keynote Address 2</b> (Dr Ross Gayler)		<b>Keynote Address 5</b> (Assoc Prof Jian Pei)				
		<b>12.55 – 14.10</b>	<b>Break</b>		<b>Break</b>		<b>Break</b>		
		<b>14.10 – 15.00</b>	<b>Keynote Address 3</b> (Prof. Ian Witten)		<b>Keynote Address 6</b> (Prof. Eamonn Keogh)				
		<b>15.00 – 16.15</b>	Wed-PM-A1: Ev Comp II (3 papers)	Wed-PM-B1: Agents I (3 papers)	Thu-PM-A1: Ev Comp III (3 papers)	Thu-PM-B1: KR & R I (3 papers)	Fri-PM-A1: DM & SL V (5 papers)	Fri-PM-B1: AI Apps II (5 papers)	
		<b>16.15</b>	<b>Afternoon Tea</b>		<b>Afternoon Tea</b>		<b>FINISH</b>		
		<b>16.25 – 17.40</b>	Wed-PM-A2: DM & SL II (3 papers)	Wed-PM-B2: UM (3 papers)	Thu-PM-A2: DM & SL IV (3 papers)	Thu-PM-B2: KR & R II (3 papers)			
		<b>17.40</b>	<b>ACAL Dinner</b>						
		<b>18.30</b>	<b>AI/DM Dinner</b>						

Session	<b>WEDNESDAY, 2 DECEMBER 2009</b>	
08.30	<b>Registration: ICT Ground Floor Foyer</b>	
08.50 – 09.00	<b>Opening Welcome: ICT-Theatre 1</b>	
09.00 – 09.50	<b>Keynote Address 1: Prof. Mark Bedau</b>	<b>Venue: ICT-Theatre 1</b> <b>Chair: Damminda Alahakoon</b>
	<b>Wed-AM-A1: Evolutionary Computing I</b> <b>Venue: ICT-Theatre 1</b> <b>Chair: Peter Vamplew</b>	<b>Wed-AM-B1: Computer Vision and Image Processing I</b> <b>Venue: ICT-Theatre 3</b> <b>Chair: David Dowe</b>
09.50 – 10.15	Classification-assisted Memetic Algorithms for Equality-constrained Optimization Problems. <i>Stephanus D. Handoko, C.K. Kwoh and Y.S. Ong</i>	Towards Automatic Image Segmentation Using Optimised Region Growing Technique <i>Mamoun Alazab, Mofakharul Islam and Sitalakshmi Venkatraman</i>
10.15 – 10.40	Novel Memetic Algorithm for Protein Structure Prediction. <i>Kamrul Islam and Madhu Chetty</i>	Information Theoretic Image Reconstruction and Segmentation from Noisy Projections. <i>Gerhardus Visser, David Dowe and Imants Svalbe</i>
10.40 – 10.50	<b>Morning Tea</b>	
	<b>Wed-AM-A2: Data Mining &amp; Statistical Learning I</b> <b>Venue: ICT-Theatre 1</b> <b>Chair: David Newman</b>	<b>Wed-AM-B2: Natural Language and Speech Processing I</b> <b>Venue: ICT-Theatre 3</b> <b>Chair: Patrick Ye</b>
10.50 – 11.15	Using Topic Models to Interpret MEDLINE's Medical Subject Headings. <i>David Newman, Sarvnaz Karimi and Lawrence Cavedon</i>	Restoring Punctuation and Casing in English Text. <i>Timothy Baldwin and Manuel Paul Anil Kumar Joseph</i>
11.15 – 11.40	Topic-based Computing Model for Web Page Popularity and Website Influence <i>Song Gao, Yajie Miao, Liu Yang and Chunping Li</i>	English Article Correction System Using Semantic Category Based Inductive Learning Rules. <i>Hokuto Ototake and Kenji Araki</i>
11.40 – 12.05	Topical Analysis for Identification of Web Communities. <i>Yajie Miao and Chunping Li</i>	Vietnamese Document Representation and Classification. <i>Giang-son Nguyen, Xiaoying Gao and Peter Andreae</i>
12.05 – 12.55	<b>Keynote Address 2: Dr Ross Gayler</b>	<b>Venue: ICT-Theatre 1</b> <b>Chair: Xiaodong Li</b>
12.55 – 14.10	<b>Break</b>	
14.10 – 15.00	<b>Keynote Address 3: Prof. Ian Witten</b>	<b>Venue: ICT-Theatre 1</b> <b>Chair: David Albrecht</b>
	<b>Wed-PM-A1: Evolutionary Computing II</b> <b>Venue: ICT-Theatre 1</b> <b>Chair: Michael Kirley</b>	<b>Wed-PM-B1: Agents I</b> <b>Venue: ICT-Theatre 3</b> <b>Chair: Michael Thielscher</b>
15.00 – 15.25	CoXCS: A Coevolutionary Learning Classifier Based on Feature Space Partitioning. <i>Mani Abedini and Michael Kirley</i>	Experimental Market Mechanism Design for Double Auction. <i>Masabumi Furuhata, Laurent Perrussel, Jean-Marc Thevenin and Dongmo Zhang</i>
15.25– 15.50	Scheduling for the National Hockey League using a Multi-objective Evolutionary Algorithm. <i>Sam Craig, Lyndon While and Luigi Barone</i>	Multistage Fuzzy Decision Making in Bilateral Negotiation with Finite Termination Times. <i>Jan Richter, Ryszard Kowalczyk and Matthias Klusch</i>
15.50 – 16.15	A Distance Metric for Evolutionary Many-Objective Optimization Algorithms using User-Preferences. <i>Upali Wickramasinghe and Xiaodong Li</i>	From my agent to our agent: Exploring Collective Adaptive Agent via Barnga. <i>Yuya Ushida, Hiyohiko Hattori, and Keiki Takadama</i>
16.15 – 16.25	<b>Afternoon Tea</b>	
	<b>Wed-PM-A2: Data Mining &amp; Statistical Learning II</b> <b>Venue: ICT-Theatre 1</b> <b>Chair: Kotagiri Ramamohanarao</b>	<b>Wed-PM-B2: User Modelling</b> <b>Venue: ICT-Theatre 3</b> <b>Chair: Shlomo Berkovsky</b>
16.25 – 16.50	A Novel Path-based Clustering Algorithm Using Multi-dimensional Scaling. <i>Uyen Nguyen, Laurence Park, Liang Wang and Kotagiri Ramamohanarao</i>	Aggregation Trade Offs in Family Based Recommendations. <i>Shlomo Berkovsky, Jill Freyne and Mac Coombe</i>
16.50 – 17.15	Adapting spectral co-clustering to documents and terms using latent semantic analysis. <i>Laurence Park, C. Leckie, K. Ramamohanarao and James Bezdek</i>	Using Keyword-Based Approaches to Adaptively Predict Interest in Museum Exhibits. <i>Fabian Bohnert and Ingrid Zukerman</i>
17.15 – 17.40	A Graph Distance based Structural Clustering Approach for Networks. <i>Xin Su and Chunping Li</i>	Behaviour Recognition from Sensory Streams in Smart Environments. <i>Sook-Ling Chua, Stephen Marsland and Hans Guesgen</i>

Session	THURSDAY, 3 DECEMBER 2009	
09.00 – 09.50	<b>Keynote Address 4:</b> Prof. Kate Miles-Smith	<b>Venue: ICT-Theatre 1</b> <b>Chair:</b> Ann Nicholson
	<b>Thu-AM-A1: Soft Computing</b> <b>Venue: ICT-Theatre 1</b> <b>Chair:</b> Graham Kendall	<b>Thu-AM-B1: Game Playing</b> <b>Venue: ICT-Theatre 3</b> <b>Chair:</b> Ann Nicholson
09.50 – 10.15	Fuzzy rank linear regression model. <i>Jin Hee Yoon and Seung Hoe Choi</i>	A Memory-Based Approach to Two-Player Texas Hold'em. <i>Jonathan Rubin and Ian Watson</i>
10.15 – 10.40	Numerical <i>versus</i> Analytic Synchronization in Small-world Networks of Hindmarsh-Rose Neurons <i>Mahdi Jalili</i>	Decomposition of Multi-Player Games. <i>Dengji Zhao, Stephan Schiffel and Michael Thielscher</i>
10.40 – 10.50	<b>Tea Break</b>	
	<b>Thu-AM-A2: Data Mining &amp; Statistical Learning III</b> <b>Venue: ICT-Theatre 1</b> <b>Chair:</b> Junbin Gao	<b>Thu-AM-B2: AI Applications I</b> <b>Venue: ICT-Theatre 3</b> <b>Chair:</b> Ann Nicholson
10.50 – 11.15	Algorithms for the Computation of Reduced Convex Hulls. <i>Ben Goodrich, David Albrecht and Peter Tischer</i>	Classification of EEG for Emotion Recognition: An Adaptive Approach. <i>Omar AlZoubi, Rafael A. Calvo and Ronald H. Stevens</i>
11.15 – 11.40	Regularized Kernel Local Linear Embedding on Dimensionality Reduction for Non-vectorial Data. <i>Yi Guo, Junbin Gao and Paul Kwan</i>	Effect of Experimental Factors on the Recognition of Affective mental states through Physiological Measures. <i>Rafael A. Calvo, Iain Brown, Steve Scheduling</i>
11.40 – 12.05	Constructing Stochastic Mixture Policies for Episodic Multiobjective Reinforcement Learning Tasks. <i>P. Vamplew, R. Dazeley, E Barker, A. Kelarev</i>	A Distance Measure for Genome Phylogenetic Analysis. <i>Minh Duc Cao, Lloyd Allison and Trevor I. Dix</i>
12.05 – 12.55	<b>Keynote Address 5:</b> Assoc Prof. Jian Pei	<b>Venue: ICT-Theatre 1</b> <b>Chair:</b> Kok-Leong Ong
12.55 – 14.10	<b>Break</b>	
14.10 – 15.00	<b>Keynote Address 6:</b> Prof. Eamonn Keogh	<b>Venue: ICT-Theatre 1</b> <b>Chair:</b> Xinghuo Yu
	<b>Thu-PM-A1: Evolutionary Computing III</b> <b>Venue: ICT-Theatre 1</b> <b>Chair:</b> Mengjie Zhang	<b>Thu-PM-B1: Knowledge Representation and Reasoning I</b> <b>Venue: ICT-Theatre 3</b> <b>Chair:</b> Miroslav Velev
15.00 – 15.25	Multi-Objective Genetic Programming for Classification with Unbalanced Data. <i>Urvesh Bhowan, Mengjie Zhang and Mark Johnston</i>	Extended Full Computation-Tree Logic with Sequence Modal Operator: Representing Hierarchical Tree Structures. <i>Norihiro Kamide and Ken Kaneiwa</i>
15.25– 15.50	Unsupervised Elimination of Redundant Features Using Genetic Programming. <i>Kourosh Neshatian and Mengjie Zhang</i>	Modelling object typicality in Description Logics. <i>Thomas Meyer, Katarina Britz and Johannes Heidema</i>
15.50 – 16.15	Balancing Parent and Offspring Selection in Genetic Programming. <i>Huayang Xie and Mengjie Zhang</i>	Modeling Abstract Behavior: a Dynamic Logic Approach. <i>Yi Zhou and Yan Zhang</i>
16.15 – 16.25	<b>Tea Break</b>	
	<b>Thu-PM-A2: Data Mining &amp; Statistical Learning IV</b> <b>Venue: ICT-Theatre 1</b> <b>Chair:</b> Peter Tischer	<b>Thu-PM-B2: Knowledge Representation &amp; Reasoning II</b> <b>Venue: ICT-Theatre 3</b> <b>Chair:</b> Thomas Meyer
16.25 – 16.50	Ensemble Approach for the Classification of Imbalanced Data. <i>Vladimir Nikulin, Geoff McLachlan and Shu Ng</i>	A data model for fuzzy linguistic databases with flexible querying. <i>Van Hung Le, Fei Liu and Hongen Lu</i>
16.50 – 17.15	MML Invariant Linear Regression. <i>Daniel Schmidt and Enes Makalic</i>	Efficient SAT Techniques for Relative Encoding of Permutations with Constraints. <i>Miroslav Velev and Ping Gao</i>
17.15 – 17.40	Enhancing MML Clustering using Context Data with Climate Applications. <i>Gerhardus Visser, David Dowe and Petteri</i>	Uniform Interpolation for ALC Revisited. <i>Zhe Wang, Kewen Wang, Rodney Topor, Jeff Z. Pan and Grigoris Antoniou</i>

Session	FRIDAY, 4 DECEMBER 2009	
09.00 – 09.50	<b>Keynote Address 7:</b> Prof. Andries P. Engelbrecht	<b>Venue: ICT-Theatre 1</b> <b>Chair:</b> Kevin Korb
	<b>Fri-AM-A1: Neural networks</b> <b>Venue: ICT-Theatre 1</b> <b>Chair:</b> Vic Ciesielski	<b>Fri-AM-B1: Agents II</b> <b>Venue: ICT-Theatre 3</b> <b>Chair:</b> Christian Guttmann
09.50 – 10.15	Texture Detection Using Neural Networks Trained on Examples of one class. <i>Vic Ciesielski and Phuong Ha</i>	Model Checking Games for a Fair Branching-Time Temporal Epistemic Logic. <i>Xiaowei Huang and Ron van der Meyden</i>
10.15 – 10.40	On Using Adaptive Binary Search Trees to Enhance Self Organizing Maps. <i>Caesar A. Astudillo and B. John Oommen</i>	Simple Default Reasoning in Theories of Action. <i>Hannes Strass and Michael Thielscher</i>
10.40 – 10.50	<b>Tea Break</b>	
	<b>Fri-AM-A2: Computer Vision and Image Processing II</b> <b>Venue: ICT-Theatre 1</b> <b>Chair:</b> Andy Song	<b>Fri-AM-B2: Natural Language &amp; Speech Processing II</b> <b>Venue: ICT-Theatre 3</b> <b>Chair:</b> Peter Andreae
10.50 – 11.15	Outline Capture of Images by Multilevel Coordinate Search on Cubic Splines. <i>Muhammad Sarfraz</i>	An Efficient Abstraction-Based Data Model for Information Retrieval. <i>Richard McAllister and Rafal Angrzyk</i>
11.15 – 11.40	Learning and Recognition of 3D Visual Objects in Real-Time. <i>Shihab Hamid and Bernhard Hengst</i>	Can Shallow Semantic Class Information Help Answer Passage Retrieval? <i>Bahadorreza Ofoghi and John Yearwood</i>
11.40 – 12.05	Learning Motion Detectors by Genetic Programming. <i>Brian Pinto and Andy Song</i>	Unsupervised Text Normalization Approach for Morphological Analysis of Blog Documents. <i>K. Ikeda, T. Yanagihara, K. Matsumoto and Y. Takishima</i>
12.05 – 12.30	Belief Propagation Implementation using CUDA on an NVIDIA GTX 280. <i>Yanyan Xu, Hui Chen, Reinhard Klette, Jiaju Liu and Tobi Vaudrey</i>	A novel connectionist network for solving long time-lag prediction tasks. <i>Keith Johnson and Cara MacNish</i>
12.30 – 12.55	Face Image Enhancement via Principal Component Analysis. <i>Deqiang Yang, Tianwei Xu, Rongfang Yang and Wanquan Liu</i>	Towards Interpreting Task-oriented Utterance Sequences. <i>Patrick Ye and Ingrid Zukerman</i>
12.55 – 14.10	<b>Break</b>	
	<b>Fri-PM-A1: Data Mining &amp; Statistical Learning V</b> <b>Venue: ICT-Theatre 1</b> <b>Chair:</b> Wayne Wobcke	<b>Fri-PM-B1: AI Applications II</b> <b>Venue: ICT-Theatre 3</b> <b>Chair:</b> John Oommen
14.10 – 14.35	Classifying Multiple Imbalanced Attributes in Relational Data. <i>Amal Ghanem, Svetha Venkatesh and Geoff West</i>	Pattern Prediction in Stock Market. <i>Saroj Kaushik and Naman Singhal</i>
14.35 – 15.00	Incremental E-Mail Classification and Rule Suggestion Using Simple Term Statistics. <i>Alfred Krzywicki and Wayne Wobcke</i>	Balancing Workload in Project Assignment. <i>Zhirong Liang, Songshan Guo, Yanzhi Li and Andrew Lim</i>
15.00 – 15.25	The Positive Effects of Negative Information: Extending One-Class Classification Models in Binary Proteomic Sequence Classification. <i>Stefan Mutter, Bernhard Pfahringer and Geoffrey Holmes</i>	Probabilistic Seeking Prediction in P2P VoD Systems. <i>Weiwei Wang, Tianyin Xu, Yang Gao and Sanglu Lu</i>
15.25 – 15.50	DMCS: Dual-Model Classification System and Its Application in Medicine. <i>Qun Song, Ruihua Weng and Fengyu Weng</i>	Collaborative-Comparison Learning for Complex Event Detection using Distributed Hierarchical Graph Neuron (DHGN) Approach in Wireless Sensor Network. <i>Anang Hudaya Muhamad Amin and Asad Khan</i>
15.50 – 16.15	Interestingness of Association Rules using Symmetrical Tau and Logistic Regression. <i>Izwan Nizal Mohd Shahrane, Fedja Hadzic and Tharam Dillon</i>	Square Root Unscented Particle Filtering for Grid Mapping. <i>Simone Zandara and Ann Nicholson</i>