

AI 2007 Schedule

Time	Tuesday 4 th Dec		Weds 5 th Dec		Thursday 6 th Dec	
9.00am	Opening Ceremony					
9.30am	Invited Talk 1		Invited Talk 2		Invited Talk 3	
10.00am	Patrick Doherty		Norman Foo		Richard Hartley	
10.30am	Morning Tea		Morning Tea		Morning Tea	
11.00am	Machine Learning One	Evolutionary Computing	Constraint Satisfaction	Knowledge Discovery	Automated Reasoning	Natural Language Systems
11.30am						
12.00pm						
12.30pm						
1.00pm	Lunch		Lunch		Lunch	
1.30pm						
2.00pm	Satisfiability	Neural Networks	Machine Learning Two	Knowledge Representation	Applications of AI One	Ontologies and Semantic Web
2.30pm						
3.00pm						
3.30pm						
4.00pm	Afternoon Tea		Afternoon Tea		Afternoon Tea	
4.30pm	Cocktail Reception and Poster Session		Robotics	Expert Systems	Applications of AI Two	Social Intelligence
5.00pm						
5.30pm			DVD Presentation*			
6.00pm			Robert Hecht-Nielsen			
6.30pm						
7.00pm			Conference Banquet			
7.30pm						
8.00pm						
8.30pm						
9.00pm						
9.30pm						

* Due to ill health, Robert Hecht-Nielsen is unable to travel to AI-07 this year to deliver his invited talk. However, he has prepared a special DVD presentation which we will be showing before the conference banquet on Weds 5th December.

AI 2007 Schedule

Tuesday 11.00 - 1.00pm

Session Name: **Machine Learning One**
 Date and Time: 11.00 - 1.00pm Tuesday 4th December
 Venue: Boulevard 2

11.00-11.30am	Efficient Learning of Bayesian Network Classifiers: An Extension to the TAN Classifier	<i>Alexandra Carvalho</i>
11.30-12.00pm	Mixture of the Robust L1 Distributions and Its Applications	<i>Junbin Gao, Richard Xu</i>
12.00-12.30pm	On Using a Hierarchy of Twofold Resource Allocation Automata to Solve Stochastic Nonlinear Resource Allocation Problems	<i>Ole-Christoffer Granmo, John Oommen</i>
12.30-1.00pm	An Investigation into the Interaction between Feature Selection and Discretization: Learning How and When to Read Numbers	<i>Sumukh Ghodke, Tim Baldwin</i>

Session Name: **Evolutionary Computing**
 Date and Time: 11.00 - 1.00pm Tuesday 4th December
 Venue: Boulevard 3

11.00-11.30am	An Adaptive Approach for QoS-aware Web Service Composition using Cultural Algorithms	<i>Ziad Kobti, Wang Zhiyang</i>
11.30-12.00pm	A Genetic Programming Approach to Extraction of Glycan Motifs using Tree Structured Patterns	<i>Masatoshi Nagamine, Tetsuhiro Miyahara, Tetsuji Kuboyama, Hiroaki Ueda, Kenichi Takahashi</i>
12.00-12.30pm	Feature Construction and Dimension Reduction Using Genetic Programming	<i>Kourosh Neshatian, Mengjie Zhang, Mark Johnston</i>
12.30-1.00pm	Adjusting Population Distance for the Dual-population Genetic Algorithm	<i>Taejin Park, Ri Choe, Kwang Ryel Ryu</i>

AI 2007 Schedule

Tuesday 2.00 - 4.00pm

Session Name: **Satisfiability**
 Date and Time: 2.00 - 4.00pm Tuesday 4th December
 Venue: Boulevard 2

2.00-2.30pm	Advances in Local Search for Satisfiability	<i>Duc-Nghia Pham, John Thornton, Charles Gretton, Abdul Sattar</i>
2.30-3.00pm	Clone: Solving Weighted Max-SAT in a Reduced Search Space	<i>Knot Pipatsrisawat, Adnan Darwiche</i>
3.00-3.30pm	A CNF Formula Hierarchy over the Hypercube	<i>Stefan Porschen</i>
3.30-4.00pm	Planning as Satisfiability with Relaxed \exists -Step Plans	<i>Martin Wehrle, Jussi Rintanen</i>

Session Name: **Neural Networks**
 Date and Time: 2.00 - 4.00pm Tuesday 4th December
 Venue: Boulevard 3

2.00-2.30pm	Avoiding Local Minima in Feedforward Neural Networks by Simultaneous Learning	<i>Akarachai Atakulreka, Daricha Sutivong</i>
2.30-3.00pm	Some Analysis on the Network of Bursting Neurons : Quantifying Behavioral Synchronization	<i>Dragos Calitoiu, John Oommen, Doron Nussbaum</i>
3.00-3.30pm	Comparative Analysis of Multiple Neural Networks for Online Identification of a UAV	<i>Vishwas Ramadas Puttige, Sreenatha Anavatti, Tapabrata Ray</i>
3.30-4.00pm	Prediction of Polysomnographic Measurements	<i>Suren Indrajith Rathnayake, Udantha R Abayratne</i>

AI 2007 Schedule

Wednesday 11.00 - 1.00pm

Session Name: **Constraint Satisfaction**
 Date and Time: 11.00 - 1.00pm Wednesday 5th December
 Venue: Boulevard 2

11.00-11.30am	An Improved Concurrent Search Algorithm for Distributed CSPs	<i>Jian Gao, Jigui Sun, Yonggang Zhang</i>
11.30-12.00pm	A Parameterized Local Consistency for Redundant Modeling in Weighted CSPs	<i>Yat Chiu Law, Jimmy Lee, May H.C. Woo</i>
12.00-12.30pm	Modeling and Solving Semiring Constraint Satisfaction Problems by Transformation to Weighted Semiring Max-SAT	<i>Louise Leenen, Thomas Meyer, Anbulagan A., Aditya Ghose</i>
12.30-1.00pm	Customizing Qualitative Spatial and Temporal Calculi (From Automated Reasoning)	<i>Jochen Renz, Falko Schmid</i>

Session Name: **Knowledge Discovery**
 Date and Time: 11.00 - 1.00pm Wednesday 5th December
 Venue: Boulevard 3

11.00-11.30am	extraRelief: Improving Relief by Efficient Selection of Instances	<i>Manoranjan Dash, Cher Yee Ong</i>
11.30-12.00pm	Constraint-Based Mining of Web Page Associations	<i>Mohammad El-Hajj, Jiyang Chen, Osmar Zaiane, Randy Goebel</i>
12.00-12.30pm	Does Multi-User Document Classification Really Help Knowledge Management?	<i>Byeong Ho Kang, Yang Sok Kim, Young Ju Choi</i>
12.30-1.00pm	Not All Words are Created Equal: Extracting Semantic Orientation as a Function of Adjective Relevance	<i>Kimberly Voll, Maite Taboada</i>

AI 2007 Schedule

Wednesday 2.00 - 4.00pm

Session Name: **Machine Learning Two**
Date and Time: 2.00 - 4.00pm Wednesday 5th December
Venue: Boulevard 2

2.00-2.30pm	Safe State Abstraction and Reusable Continuing Subtasks in Hierarchical Reinforcement Learning	<i>Bernhard Hengst</i>
2.30-3.00pm	Local Learning Algorithm for Markov Blanket Discovery: Correct, Data Efficient, Scalable and Fast	<i>Shunkai Fu, Michel Desmarais</i>
3.00-3.30pm	A Novel Ordering-based Greedy Bayesian Network Learning Algorithm on Limited Data	<i>Feng Liu</i>
3.30-4.00pm	New Options for Hoeffding Trees	<i>Bernhard Pfahringer, Geoffrey Holmes, Richard Kirkby</i>

Session Name: **Knowledge Representation**
Date and Time: 2.00 - 4.00pm Wednesday 5th December
Venue: Boulevard 3

2.00-2.30pm	Temporal Extensions to Defeasible Logic	<i>Guido Governatori, Paolo Terenziani</i>
2.30-3.00pm	Characterising Deadlines in Temporal Modal Defeasible Logic	<i>Guido Governatori, Joris Hulstijn, Regis Riveret, Antonino Rotolo</i>
3.00-3.30pm	Dialogue Games in Defeasible Logic	<i>Subhasis Thakur, Guido Governatori, Vineet Padmanabhan, Jenny Eriksson-Lundstrom</i>
3.30-4.00pm	Implementing Iterated Belief Change via Prime Implicates	<i>Zhi Qiang Zhuang, Maurice Pagnucco, Thomas Meyer</i>

AI 2007 Schedule

Wednesday 4.30 - 5.30pm

Session Name: **Robotics**
Date and Time: 4.30 - 5.30pm Wednesday 5th December
Venue: Boulevard 2

4.30-5.00pm	A Bio-inspired Method for Incipient Slip Detection	<i>Rosana Matuk Herrera</i>
5.00-5.30pm	TalkBack: Feedback From a Miniature Robot	<i>Yasser Mohammad, Toyoaki Nishida</i>

Session Name: **Expert Systems**
Date and Time: 4.30 - 5.30pm Wednesday 5th December
Venue: Boulevard 3

4.30-5.00pm	Applying MCRDR to a Multidisciplinary Domain	<i>Ivan Bindoff, Byeong Ho Kang, Tristan Ling, Peter Tenni, Gregory Peterson</i>
5.00-5.30pm	Continuity of Fuzzy Approximate Reasoning and Its Application to Optimization	<i>Takashi Mitsuishi, Yasunari Shidama</i>

AI 2007 Schedule

Thursday 11.00 - 1.00pm

Session Name: **Automated Reasoning**
Date and Time: 11.00 - 1.00pm Thursday 6th December
Venue: Boulevard 2

11.00-11.30am	Forgetting in Logic Programs with Ordered Disjunction	<i>Wu Chen, Norman Foo, Mingyi Zhang</i>
11.30-12.00pm	The 'Majority' and 'by Default' Modalities	<i>Victor Jauregui</i>
12.00-12.30pm	Restricted Higher-Order Anti-Unification for Analogy Making	<i>Ulf Krumnack, Angela Schwering, Helmar Gust, Kai-Uwe Kuehnberger</i>
12.30-1.00pm	A Template Matching Table for Speeding-up Game-Tree Searches for Hex	<i>Rune Rasmussen, Frederic Maire, Ross Hayward</i>

Session Name: **Natural Language Systems**
Date and Time: 11.00 - 1.00pm Thursday 6th December
Venue: Boulevard 3

11.00-11.30am	A Decision Tree Approach to Sentence Chunking	<i>Samuel Chan</i>
11.30-12.00pm	Effectiveness of Methods for Syntactic and Semantic Recognition of Numeral Strings: Tradeoffs between Number of Features and Length of Word N-grams	<i>Kyongho Min, William H. Wilson, Byeong Ho Kang</i>
12.00-12.30pm	Using Automated Error Profiling of Texts for Improved Selection of Correction Candidates for Garbled Tokens	<i>Stoyan Mihov, Petar Mitankin, Annette Gotscharek, Ulrich Reffle, Klaus Schulz, Christoph Ringlstetter</i>
12.30-1.00pm	Hypothesis Generation and Maintenance in the Interpretation of Spoken Utterances	<i>Michael Niemann, Ingrid Zukerman, Enes Makalic, Sarah George</i>

AI 2007 Schedule

Thursday 2.00 - 4.00pm

Session Name: **Applications of AI One**
 Date and Time: 2.00 - 4.00pm Thursday 6th December
 Venue: Boulevard 2

2.00-2.30pm	Tomographic Reconstruction of Images from Noisy Projections – A Preliminary Study	<i>Alex Dalgleish, David Dowe, Imants Svalbe</i>
2.30-3.00pm	Automated Intelligent Abundance Analysis of Scallop Survey Video Footage	<i>Robert Fearn, Raymond Williams, Mike Cameron-Jones, Julian Harrington, Jayson Semmens</i>
3.00-3.30pm	Multiple Classifier Object Detection with Confidence Measures	<i>Michael Horton, Mike Cameron-Jones, Raymond Williams</i>
3.30-4.00pm	Agent-Based Distributed Energy Management	<i>Jiaming Li, Geoff Poulton, Geoff James</i>

Session Name: **Ontologies and Semantic Web**
 Date and Time: 2.00 - 4.00pm Thursday 6th December
 Venue: Boulevard 3

2.00-2.30pm	The Semantic Representation of Temporal Expressions in Text (From Natural Language Systems)	<i>Robert Dale, Pawel Mazur</i>
2.30-3.00pm	An Upper Ontology for Event Classifications and Relations	<i>Ken Kaneiwa, Michiaki Iwazume, Ken Fukuda</i>
3.00-3.30pm	A Within-Frame Ontological Extension on FrameNet: Application in Predicate Chain Analysis and Question Answering	<i>Bahadorreza Ofoghi, John Yearwood, Ranadhir Ghosh</i>
3.30-4.00pm	Using Clustering for Web Information Extraction	<i>Le Phong Bao Vuong, Xiaoying Gao</i>

AI 2007 Schedule

Thursday 4.30 - 6.00pm

Session Name: **Applications of AI Two**
Date and Time: 4.30 – 6.00pm Thursday 6th December
Venue: Boulevard 2

4.30-5.00pm	Adaptation Knowledge from the Case Base	<i>Julie Main, Tharam Dillon, Mary Witten</i>
5.00-5.30pm	Building Classification Models from Microarray Data with Tree-based Classification Algorithms	<i>Peter J. Tan, David Dowe, Trevor Dix</i>
5.30-6.00pm	MAUSA: Using Simulated Annealing for Guide Tree Construction in Multiple Sequence Alignment	<i>Philip Uren, Mike Cameron-Jones, Arthur Sale</i>

Session Name: **Social Intelligence**
Date and Time: 4.30 – 6.00pm Thursday 6th December
Venue: Boulevard 3

4.30-5.00pm	Using Viewing Time for Theme Prediction in Cultural Heritage Spaces	<i>Fabian Bohnert, Ingrid Zukerman</i>
5.00-5.30pm	Collaborative Tagging in Recommender Systems	<i>Ae-ttie Ji, Cheol Yeon, Heung-Nam Kim, Geun-Sik Jo</i>
5.30-6.00pm	Computational Imagination: Research Agenda	<i>Rossitza Setchi, Nikolaos Lagos, Danny Froud</i>

AI 2007 Schedule

Short Paper Poster Session

Tuesday 4.30 - 6.30pm

Session Name: **Short Paper Posters**
 Date and Time: 4.30 – 6.30pm Tuesday 4th December
 Venue: Palm Prefunction

A System for Modal and Deontic Defeasible Reasoning	<i>Grigoris Antoniou, Nikos Dimareisis, Guido Governatori</i>
Time-Reversal in Conway's Life as SAT	<i>Stuart Bain</i>
A Knowledge-Based Approach to Named Entity Disambiguation in News Articles	<i>Tru Cao, Hien Nguyen</i>
Real-time Scheduling for Non-crossing Stacking Cranes in an Automated Container Terminal	<i>Ri Choe, Taejin Park, Seung Min Ok, Kwang Ryel Ryu</i>
The Detrimentality of Crossover	<i>Andrew Czarn, Cara MacNish, Kaipillil Vijayan, Berwin Turlach</i>
Automatic Sapstain Detection in Process Timber	<i>Jeremiah D. Deng, Matthew Gleeson</i>
Structure-Sensitive Learning of Text Types	<i>Peter Geibel, Ulf Krumnack, Olga Pustyl'nikov, Alexander Mehler, Helmar Gust, Kai-Uwe Kuehnberger</i>
A Comparison of Neural-based Techniques Investigating Rotational Invariance for Upright People Detection in Low Resolution Imagery	<i>Steve Green, Michael Blumenstein</i>
Multilevel Thresholding Method for Image Segmentation Based on an Adaptive Particle Swarm Optimization Algorithm	<i>Chonghui Guo, Hong Li</i>
Twin Kernel Embedding with Relaxed constraints on Dimensionality Reduction for Structured Data	<i>Yi Guo, Junbin Gao, Paul W.H. Kwan</i>
Evaluation of Connectives Acquisition in a Humanoid Robot Using Direct Physical Feedback	<i>Dai Hasegawa, Rafal Rzepka, Kenji Araki</i>
To Better Handle Concept Change and Noise: A Cellular Automata Approach to Data Stream Classification	<i>Sattar Hashemi, Ying Yang, Majid Pourkashani, Mohammadreza Kangavari</i>
Categorizing Software Engineering Knowledge Using a Combination of SWEBOK and Text Categorization	<i>Jianying He, Haihua Yan, Maozhong Jin, Chao Liu</i>
An Improved Probability Density Function for Representing Landmark Positions in Bearing-only SLAM Systems	<i>Henry Huang, Frederic Maire, Narongdech Keeratipranon</i>
Weight Redistribution for Unweighted MAX-SAT	<i>Abdelraouf Ishtaiwi, John Thornton, Abdul Sattar</i>
A HMM-Based Hierarchical Framework for Long-term Population Projection of Small Areas	<i>Bin Jiang, Huidong Jin, Nianjun Liu, Mike Quirk, Ben Searle</i>
Backbone of the p-Median Problem	<i>He Jiang, XianChao Zhang, MingChu Li</i>

One Shot Associative Memory Method for Distorted Pattern Recognition	<i>Asad Khan, Anang Hudaya Muhamad Amin</i>
Efficiently Finding Negative Association Rules Without Support Threshold	<i>Yun Sing Koh, Russel Pears</i>
A Data Mining Algorithm for Designing the Conventional Cellular Manufacturing Systems	<i>ChenGuang Liu</i>
A Compromised Large-Scale Neighborhood Search Heuristic for Cargo Loading Planning	<i>Yanzhi Li, Yi Tao, Fan Wang</i>
Concurrent Temporal Planning using Timed Petri Nets - Policy Evaluation	<i>Melissa Liew, Langford White</i>
Validation of a Reinforcement Learning Policy for Dosage Optimization of Erythropoietin	<i>Jose D. Martin-Guerrero, Emilio Soria-Olivas, Marcelino Martínez-Sober, Mónica Climente-Martí, Teresa de Diego-Santos and Víctor Jiménez-Torres</i>
Pixel-Based Colour Image Segmentation using Support Vector Machine for Automatic Pipe Inspection	<i>John Mashford, Paul Davis, Mike Rahilly</i>
An Approach to Spanish Subjunctive Mood in Japanese to Spanish Machine Translation	<i>Manuel Medina Gonzalez, Hirosato Nomura</i>
Reasoning about Hybrid Systems Based on a Nonstandard Model	<i>Katsunori Nakamura, Akira Fusaoka</i>
Merging Algorithm to Reduce Dimensionality in Application to Web-Mining	<i>Vladimir Nikulin, Geoffrey McLachlan</i>
Human Behavior Analysis for Human-Robot Interaction in Indoor Environments	<i>Jung-Eun Park, Kyung-Whan Oh</i>
Fitness Functions in Genetic Programming for Classification with Unbalanced Data	<i>Grant Patterson, Mengjie Zhang</i>
Protein Structure Alignment Using Maximum Cliques and Local Search	<i>Wayne Pullan</i>
SMART: Structured Memory for Abstract Reasoning and Thinking	<i>Umair Rafique, Shell Ying Huang</i>
An Efficient Segmentation Technique for Known Touching Objects Using a Genetic Algorithm Approach	<i>Edgar Scavino, Dzuraidah Abdul Wahab, Hassan Basri, Mohd Marzuki Mustafa, Aini Hussain</i>
Elements of a Learning Interface for Genre Qualified Search	<i>Andrea Stubbe, Christoph Ringlstetter, Randy Goebel</i>
A System for Acquisition of Noun Concepts from Utterances for Images Using the Label Acquisition Rules	<i>Yuzu Uchida, Kenji Araki</i>
Branching Rules for Satisfiability Analysed with Factor Analysis	<i>Richard Wallace, Stuart Bain</i>
Hybrid Methods to Select Informative Gene Sets in Microarray Data Classification	<i>Pengyi Yang, Zili Zhang</i>
An EM Algorithm for Independent Component Analysis Using an AR-GGD Source Model	<i>Yumin Yang, Chonghui Guo, Zunquan Xia</i>
Bagging Support Vector Machine for Classification of SELDI-ToF Mass Spectra of Ovarian Cancer Serum Samples	<i>Bailing Zhang, Tuan Pham, Yanchun Zhang</i>
Class Association Rule Mining with Multiple Imbalanced Attributes	<i>Huafeng Zhang, Yanchang Zhao, Longbing Cao, Chengqi Zhang</i>
DBSC: A Dependency-Based Subspace Clustering Algorithm for High Dimensional Numerical Datasets	<i>Xufei Wang, Chunping Li</i>