

Program Overview

MAY 20, 2008	
9:15 – 6:00	Workshop on Intelligent Databases

ISMIS'08 DAY 1: MAY 21, 2008	
9:15 – 9:30	OPENING
9:30 – 10:30	Plenary Talk 1 (John Mylopoulos)
10:30 – 10:50	COFFEE BREAK
10:50 – 12:30	SESSION 1A SESSION 1B
12:30 – 2:00	LUNCH BREAK
2:00 – 3:40	SESSION 2A SESSION 2B
3:40 – 4:00	COFFEE BREAK
4:00 – 5:40	SESSION 3A SESSION 3B
6:30 – 8:30	RECEPTION

ISMIS'08 DAY 2: MAY 22, 2008	
9:00 – 10:00	Plenary Talk 2 (Jiawei Han)
10:00 – 10:20	COFFEE BREAK
10:20 – 12:25	SESSION 4A SESSION 4B
12:25 – 2:00	LUNCH BREAK
2:00 – 3:40	SESSION 5A SESSION 5B
3:40 – 4:00	COFFEE BREAK
4:00 – 5:15	SESSION 6A SESSION 6B
6:00 – 9:00	BANQUET

ISMIS'08 DAY 3: MAY 23, 2008	
9:00 – 10:00	Plenary Talk 3 (Michael Lowry)
10:00 – 10:20	COFFEE BREAK
10:20 – 12:25	SESSION 7A SESSION 7B
12:25 – 2:00	LUNCH BREAK
2:00 – 3:40	SESSION 8A SESSION 8B
3:40 – 4:00	CLOSING

Final Program

Wednesday, May 21, 2008

8:30 AM – 6:00 PM	Registration	
9:15 AM – 9:30 AM	Opening Ceremony (McEwen Auditorium, SSB) Nick Cercone and Zbigniew Ras	
9:30 AM – 10:30 AM	Plenary Talk 1: (McEwen Auditorium, SSB) Agent-Oriented Software Engineering John Mylopoulos	
10:30 AM – 10:50 AM	Coffee Break	
10:50 AM – 12:30 PM	<u>Session 1A: Intelligent Information Systems</u> (Lecture Hall N106, SSB) Chair: Cory Butz	<u>Session 1B: Knowledge Discovery and Data Mining (1)</u> (Lecture Hall N107, SSB) Chair: Neil Murray
	Agent-based Assistant for e-Negotiations Simone Anja Ludwig	Obtaining Low-Arity Discretizations from Online Data Streams Tapio Elomaa, Petri Lehtinen and Matti Saarela
	Local Soft Belief Updating for Relational Classification Guoli Dining, Robert Lax, Jianhua Chen, Peter Chen and Brian Marx	Maps Ensemble for Semi-Supervised Learning of Large High Dimensional Datasets Elie Prudhomme and Stéphane Lallich
	On a Probabilistic Combination of Prediction Sources Ioannis Rousidis, George Tzagkarakis, Dimitris Plexousakis and Yannis Tzitzikas	A Multi-Relational Hierarchical Clustering Method for DATALOG Knowledge Bases Nicola Fanizzi, Claudia D'Amato and Floriana Esposito
	Effective Document-Oriented Telemetry Data Compression David A. Maluf, Peter Tran and David Tran	iZi: A New Toolkit for Pattern Mining Problems Frédéric Flouvat, Fabien De Marchi and Jean-Marc Petit
12:30 PM – 2:00 PM	Lunch Break (CIBC Marketplace, SSB)	
2:00 PM – 3:40 PM	<u>Session 2A: Logic for Artificial Intelligence</u> (Lecture Hall N106, SSB) Chair: Stan Matwin	<u>Session 2B: Knowledge Discovery and Data Mining (2)</u> (Lecture Hall N107, SSB) Chair: Donato Malerba
	Reduced Implicate/Implicant Tires Neil Murray and Erik Rosenthal	Mining Induced and Embedded Subtrees in Ordered, Unordered, and Partially-Ordered Trees

	<p>Golden Ratio Annealing for Satisfiability Problems Using Dynamically Cooling Schemes Juan Frausto-Solis and Felix Martinez-Rios</p> <hr/> <p>Modeling Cooperation in P2P Data Management Systems Luciano Caroprese and Ester Zumpano</p> <hr/> <p>Interactions between Rough Parts in Object Perception Andrzej Przybyszewski</p>	<p>Aida Jimenez, Fernando Berzal and Juan-Carlos Cubero</p> <hr/> <p>A Structure-Based Clustering on LDAP Directory Information Vassiliki Koutsonikola, Athena Vakali, Antonios Mpalasas and Michael Valavanis</p> <hr/> <p>LAREDAM – Considerations on System of Local Analytical Reports from Data Mining Jan Rauch and Milan Simunek</p> <hr/> <p>Analyzing Behaviour of Objective Rule Evaluation Indices Based on Pearson Product-Moment Correlation Coefficient Hidenao Abe and Shusaku Tsumoto</p>
3:40 PM – 4:00 PM	Coffee Break	
4:00 PM – 5:40 PM	<p><u>Session 3A: Digital Library</u> (Lecture Hall N106, SSB) Chair: Jimmy Huang</p> <hr style="border-top: 1px dashed black;"/> <p>Image Database Browsing by Unsupervised Learning Charbel Julien and Lorenza</p> <hr/> <p>Automatic Handling of Digital Image Repositories: A Brief Survey Charbel Julien</p> <hr/> <p>Decision Tree Induction for Identifying Trends in Line Graphs Peng Wu, Sandra Carberry, Daniel Chester and Stephanie Elzer</p> <hr/> <p>Development of the XML Digital Library from the Parliament of Andalucia for Intelligent Structured Retrieval Juan M. Fernández-Luna, Juan F. Huete, Manuel Gómez and Carlos J. Martin-Dancausa</p>	<p><u>Session 3B: Web Service and Intelligence</u> (Lecture Hall N107, SSB) Chair: Parke Godfrey</p> <hr style="border-top: 1px dashed black;"/> <p>A Graph b-Colouring Based Method for Composition-Oriented Web Services Classification Lyes Dekar and Hamamache Kheddouci</p> <hr/> <p>OWL-S Atomic Services Composition with SWRL Rules Domenico Redavid, Luigi Iannone, Terry Payne and Giovanni Semeraro</p> <hr/> <p>A Web-Based Interface for Hiding Bayesian Network Interference Cory Butz, Pawan Lingras and Ken Konkel</p> <hr/> <p>Classification of Web Services Using Tensor Space Model and Rough Ensemble Classifier Suman Saha, C. A. Murthy and Sankar K. Pal</p>
6:30 PM – 8:30 PM	Reception (Underground Restaurant, Student Center Building)	

Thursday, May 22, 2008

8:30 AM – 6:00 PM	Registration	
9:00 AM – 10:00 AM	Plenary Talk 2: (Location: Lecture Hall 001, Accolade East Building) Exploring the Power of Links in Information Networking Mining Jiawei Han	
10:00 AM – 10:20 AM	Coffee Break	
10:20 AM – 12:25 PM	<p><u>Session 4A: Knowledge Representation and Integration</u> (Lecture Hall N106, SSB) Chair: Erik Rosenthal</p> <hr/> <p>Improving Integration with Subjective Combining of Ontology Mappings Dennis Hooijmaijers and Markus Stumptner</p> <hr/> <p>Text Onto Miner – A Semi-Automated Ontology Building System Piotr Gawrysiak, Henryk Rybinski, Grzegorz Protaziuk and Alexandre Delteil</p> <hr/> <p>Ontology-Driven Adaptive Medical Information Collection System Matt Mouley Bouamrane, Alan Rector and Martin Hurrell</p> <hr/> <p>An Effective Ontology Matching Technique Ahmed Alasoud, Volker Haarslev and Nematollaah Shiri</p> <hr/> <p>A Casual Approach for Explaining Why a Heuristic Algorithm Outperforms Another in Solving an Instance Set of the Bin Packing Problem Joaquin Perez, Laura Cruz, Rodolfo Pazos, Vanesa Landero, Gerardo Reyes, Crispin Zavala, Hector Fraire, Veronica Perez</p>	<p><u>Session 4B: Knowledge Discovery and Data Mining (3)</u> (Lecture Hall N107, SSB) Chair: Jan Rauch</p> <hr/> <p>Boosting Support Vector Machines for Imbalanced Data Sets Benjamin X. Wang and Nathalie Japkowicz</p> <hr/> <p>Class-Oriented Reduction of Decision Tree Complexity Jose-Luis Polo, Fernando Berzal and Juan-Carlos Cubero</p> <hr/> <p>Evaluating Decision Trees Grown with Asymmetric Entropies Simon Marcellin, Djamel A. Zighed and Gilbert Ritschard</p> <hr/> <p>Stepwise Induction of Logistic Model Trees Annalisa Appice, Michelangelo Ceci, Donato Malerba and Savino Saponara</p> <hr/> <p>Stochastic Propositionalization for Efficient Multi-Relational Learning Nicola Di Mauro, Teresa Basile, Stefano Ferilli and Floriana Esposito</p>
12:25 PM – 2:00 PM	Lunch Break (Free Time)	
2:00 PM – 3:40 PM	<p><u>Session 5A: Databases and Data Warehouses</u> (Lecture Hall N106, SSB) Chair: Dominik Slezak</p>	<p><u>Session 5B: Intelligent Information Retrieval</u> (Lecture Hall N107, SSB) Chair: Nathalie Japkowicz</p>

	<p>Top-Down Compression of Data Cubes in the Presence of Simultaneous Multiple Hierarchical Range Queries Alfredo Cuzzocrea</p> <hr/> <p>SQL Queries With CASE Expressions Jarek Gryz, Qiong Wang, Xiaoyan Qian and Calisto Zuzarte</p> <hr/> <p>Predicate Indexing for Incremental Multi-Query Optimization Chun Jin and Jaime Carbonell</p> <hr/> <p>Degrees of Exclusivity in Disjunctive Databases Navin Viswanath and Raj Sunderraman</p>	<p>Evaluating Information Retrieval System Performance Based on Multi-grade Relevance Bing Zhou and Yiyu Yao</p> <hr/> <p>A Dynamic Window Based Passage Extraction Algorithm for Genomics Information Retrieval Qinmin Hu and Jimmy Huang</p> <hr/> <p>Mining Scalar Representations in a Non-Tagged Music Database Rory Lewis, Wenxin Jiang and Zbigniew Ras</p> <hr/> <p>Identification of Dominating Instrument in Mixes of Sound of the Same Pitch Alicja Wiczorkowska and Elzbieta Kolczynska</p>
<p>3:40 PM – 4:00 PM</p>	<p style="text-align: center;">Coffee Break</p>	
<p>4:00 PM – 5:15 PM</p>	<p style="text-align: center;"><u>Session 6A: Autonomic and Evolutionary Computation</u> (Lecture Hall N106, SSB) Chair: Alicja Wiczorkowska</p> <hr/> <p>A Multi-Objective Optimal Approach for UAV Routing in Reconnaissance Mission with Stochastic Observation Time Xingguang Peng and Xiaoguang Gao</p> <hr/> <p>Hybrid Unsupervised/Supervised Virtual Reality Spaces for Visualizing Gastric and Liver Cancer Databases: An Evolutionary Computation Approach Alan Barton and Julio Valdes</p> <hr/> <p>Self-Calibrating Strategies for Evolutionary Approaches that solve Constrained Combinatorial Problems Maria-Cristina Riff and Elizabeth Montero</p>	<p style="text-align: center;"><u>Session 6B: Soft Computing (1)</u> (Lecture Hall N107, SSB) Chair: Sankar Pal</p> <hr/> <p>Towards Fuzzy Query Answering Using Fuzzy Views – A Graded-Subsumption-Based Approach Allel Hadjali and Olivier Pivert</p> <hr/> <p>Term Distribution-based Initialization of Fuzzy Text Clustering Krzysztof Ciesielski, Mieczyslaw Klopotek and Sławomir Wierzchoń</p> <hr/> <p>Cooperative Answering to Flexible Queries via a Tolerance Relation Patrick Bosc, Allel Hadjali and Olivier Pivert</p>
<p>6:00 PM – 9:00 PM</p>	<p style="text-align: center;">BANQUET (Executive Dining Room, SSB)</p>	

Friday, May 23, 2008

8:30 AM – 4:00 PM	Registration	
9:00 AM – 10:00 AM	Plenary Talk 3: (Location: Lecture Hall 001, Accolade East Building) Intelligent Software Engineering Tools for NASA's Crew Exploration Vehicle Michael Lowry	
10:00AM – 10:20 AM	Coffee Break	
10:20 AM – 12:25 PM	<u>Session 7A: Knowledge Discovery and Data Mining (4)</u> (Lecture Hall N106, SSB) Chair: Petr Berka <hr/> Discovering Emerging Patterns for Anomaly Detection in Network Connection Data Michelangelo Ceci, Annalisa Appice, Costantina Caruso and Donato Malerba <hr/> Action Rule Extraction From A Decision Table : ARED Seunghyun Im and Zbigniew W. Ras <hr/> Discovering the Concise Set of Actionable Patterns Li-Shiang Tsay and Zbigniew W. Ras <hr/> Temporal Extrapolation within a Static Clustering Tim Cocx, Walter Kusters and Jeroen Laros <hr/> Discovering Explanations from Longitudinal Data Corrado Loglisci and Donato Malerba	<u>Session 7B: Applications</u> (Lecture Hall N107, SSB) Chair: Jimmy Huang <hr/> Using Data mining for Dynamic Level Design in Games Kitty Chiu and Keith C.C. Chan <hr/> Extraction of Informative Genes from Integrated Microarray Data Dongwan Hong, Jongkeun Lee, Sangkyoon Hong, Jeehee Yoon and Sanghyun Park <hr/> Performance Weights for the Linear Combination Data Fusion Method in Information Retrieval Shengli Wu, Qili Zhou, Yaxin Bi and Xiaoqin Zeng <hr/> Applying Cost Sensitive Feature Selection in an Electric Database Manuel Mejia-Lavalle and Guillermo Rodriguez <hr/> Outlier Detection Techniques for Process Mining Applications Lucantonio Ghionna, Gianluigi Greco, Antonella Guzzo and Luigi Pontieri
12:25 PM – 2:00 PM	Lunch Break (Underground Restaurant, Student Centre Building)	
2:00 PM – 3:40 PM	<u>Session 8A: Text Mining</u> (Lecture Hall N106, SSB) Chair: Michelangelo Ceci <hr/> Autonomous News Clustering and Classification for an Intelligent Web Portal	<u>Session 8B: Soft Computing (2)</u> (Lecture Hall N107, SSB) Chair: Aijun An <hr/> Effectiveness of Fuzzy Discretization for Class Association Rule-Based Classification

	<p>Traian Rebedea and Stefan Trausan-Matu</p> <hr/> <p>On Determining the Optimal Partition in Agglomerative Clustering of Documents Ahmad Sayed, Hakim Hacid and Djamel A. Zighed</p> <hr/> <p>Ontological Summaries through Hierarchical Clustering Troels Andreasen, Henrik Bulskov and Thomas Vestskov Terney</p> <hr/> <p>Combining Multiple Sources of Evidence in Web Information Extraction Martin Labsky and Vojtech Svatek</p>	<p>Keivan Kianmehr and Reda Alhadj</p> <hr/> <p>Towards a Crisp Representation of Fuzzy Description Logics under Lukasiewicz Semantics Fernando Bobillo and Umberto Straccia</p> <hr/> <p>Rough Set Approximations in Formal Concept and Knowledge Spaces Feifei Xu, Yiyu Yao and Duoqian Miao</p> <hr/> <p>An Ant Colony System Algorithm to Solve Routing Problems Applied to the Delivery of Bottled Products José F. Delgado, Laura Cruz, Juan J. Gonzalez B., Héctor J. Fraire H. and Barbara A. Arrañaga C.</p>
<p>3:40 PM – 4:00 PM</p>	<p>Wrap-Up</p>	