

Full Papers

Knowledge Representation

On the Structure Model Interpretation of Wright's NESS Test .

Richard A. Baldwin and Eric Neufeld

Answer Formulation for Question-Answering

Leila Kosseim, Luc Plamondon, and Louis-Julien Guillemette

Pattern-Based AI Scripting Using ScriptEase

Matthew McNaughton, James Redford, Jonathan Schaeffer, and Duane Szafron

Enumerating the Preconditions of Agent Message Types

Francis Jeffrey Pelletier and Rene Elio

Search

Monadic Memoization - Towards Correctness-Preserving Reduction of Search

Richard Frost

Searching Solutions in the Crypto-Arithmetic Problems: An Adaptive Parallel Genetic Algorithm Approach

Man Hon Lo and Kwok Yip Szeto

Stochastic Local Search for Multiprocessor Scheduling for Minimum Total Tardiness

Michael Pawlin, Holger H. Hoos, and Thomas Stuetzle

Constraint Satisfaction

A Graph Based Backtracking Algorithm for Solving General CSPs

Wanlin Pang and Scott D. Goodwin

Iterated Robust Tabu Search for MAX-SAT

Kevin Smyth, Holger H. Hoos, and Thomas Stuetzle

Scaling and Probabilistic Smoothing: Dynamic Local Search for Unweighted MAX-SAT

Dave A.D. Tompkins, and Holger H. Hoos

A Comparison of Consistency Propagation Algorithms in Constraint Optimization

Jingfang Zheng and Michael C. Horsch

Machine Learning and Data Mining

Discovering Temporal/Causal Rules: A Comparison of Methods

Kamran Karimi and Howard J. Hamilton

Selective Transfer of Task Knowledge Using Stochastic Noise . . .

Daniel L. Silver and Peter McCracken

Efficient Mining of Indirect Associations Using HI-Mine

Qian Wan and Aijun An

Case Authoring from Text and Historical Experiences

Marvin Zaluski, Nathalie Japkowicz, and Stan Matwin

AI and Web Applications

Session Boundary Detection for Association Rule Learning Using n-Gram Language Models

Xiangji Huang, Fuchun Peng, Aijun An, Dale Schuurmans, and Nick Cercone

Negotiating Exchanges of Private Information for Web Service Eligibility

Keping Jia and Bruce Spencer

Post-Supervised Template Induction for Dynamic Web Sources .

Zhongmin Shi, Evangelos Milios, and Nur Zincir-Heywood

Summarizing Web Sites Automatically

Yongzheng Zhang, Nur Zincir-Heywood, and Evangelos Milios

Reasoning under Uncertainty

Cycle-Cutset Sampling for Bayesian Networks

Bozhena Bidyuk and Rina Dechter

Learning First-Order Bayesian Networks

Ratthachat Chatpatanasiri and Boonserm Kijirikul

Comparing Decision Trees and Naive Bayes using AUC

Charles X. Ling, Jin Huang, and Harry Zhang

Model-Based Least-Squares Policy Evaluation

Fletcher Lu and Dale Schuurmans

Agent and Multiagent Systems

DIAGAL: A Tool for Analyzing and Modelling Commitment-Based Dialogues Between Agents

Marc-Andr Labrie, Brahim Chaib-draa, and N. Maudet

Situation Event Logic for Early Validation of Multi-Agent Systems

Sehl Mellouli, Guy W. Mineau, and Bernard Moulin

Understanding ‘Not-Understood’: Towards an Ontology of Error Conditions for Agent Communication

Anita Petrinjak and Rene Elio

AI and Bioinformatics

An Improved Ant Colony Optimisation Algorithm for the 2D HP Protein Folding Problem

Alena Shmygelska and Holger H. Hoos

Hybrid Randomised Neighbourhoods Improve Stochastic Local Search for DNA Code Design

Dan C. Tulpan and Holger H. Hoos

AI and E-Commerce

A Strategy for Improved Satisfaction of Selling Software Agents in E-Commerce

Thomas Tran and Robin Cohen

Pre Negotiations Over Services - A Framework for Evaluation

Petco E. Tsvetinov

Poster Papers

Knowledge Representation

- A Formal Theory for Describing Action Concepts in Terminological Knowledge Bases**
Christel Kemke

Machine Learning and Data Mining

- Improving User-Perceived QoS in Mobile Ad hoc Networks Using Decision Rules Induction**
Juan A. Botia, Pedro Ruiz, Jose Salort, and Antonio Gomez-Skarmeta
- Risk Neutral Calibration of Classifiers**
Ron Coleman
- Search Bound Strategies for Rule Mining by Iterative Deepening**
William Elazmeh
- Methods for Mining Frequent Sequential Patterns**
Linhui Jiang and Howard J. Hamilton
- Learning by Discovering Conflicts**
George V. Lashkia and Laurence Anthony
- Enhancing Caching in Distributed Databases Using Intelligent Polytrees Representations**
Ouerd Messaouda, John B. Oommen, and Stan Matwin
- Feature Selection Strategies for Text Categorization**
Pascal Soucy and Guy W. Mineau
- Learning Graphplan Memos through Static Domain Analysis**
M. Afzal Upal
- Classification Automaton and its Construction using Learning**
Xiangrui Wang and Narendra S. Chaudhari
- A Genetic K-means Clustering Algorithm Applied to Gene Expression Data**
Fangxiang Wu, Wenjun Zhang, and Anthony J. Kusalik
- Explanation Oriented Association Mining Using A Combination of Unsupervised and Supervised Learning Algorithms**
Yiyu Yao, Yan Zhao, and Brien Maguire
- Motion Recognition from Video Sequences**
Xiang Yu and Simon X. Yang

Natural Language

Noun Sense Disambiguation with WordNet for Software Design Retrieval

Paulo Gomes, Francisco C. Pereira, Nuno Seco, Paulo Carreiro, Jose Luis, and Carlos Bento

Not As Easy As It Seems: Automating the Construction of Lexical Chains Using Roget's Thesaurus

Mario Jarmasz and Stan Szpakowicz

The Importance of Fine-Grained Cue Phrases in Scientific Citations

Robert E. Mercer and Chrysanne Di Marco

AI and Web Applications

Fuzzy C-Means Clustering of Web Users for Educational Sites .

Pawan Lingras, Rui Yan, and Chad West

Re-using Web Information for Building Flexible Domain Knowledge

Mohammed Abdel Razek, Claude Frasson, and Marc Kaltenbach

Reasoning under Uncertainty

A New Inference Axiom for Probabilistic Conditional Independence

Cory J. Butz, Michael S.K. Wong, and Dan Wu

Probabilistic Reasoning for Meal Planning in Intelligent Fridges

Michael Janzen and Yang Xiang

Probabilistic Reasoning in Bayesian Networks: A Relational Database Approach

Michael S.K. Wong, Dan Wu, and Cory J. Butz

A Fundamental Issue of Naive Bayes

Harry Zhang and Charles Ling

Agents and Multiagent Systems

The Virtual Driving Instructor - Creating Awareness in a Multiagent System

I. Weevers, J. Kuipers, A.O. Brugman, J. Zwiers, E.M.A.G. van Dijk, and A. Nijholt

AI and E-Commerce

Multi-Attribute Exchange Market: Theory and Experiments . . .

Eugene Fink, Josh Johnson, and John Hershberger

Graduate Student Symposium

- Agent-based Online Trading System**
S. Abu-Draz and E. Shakshuki
- On the Applicability on K-Systems and Iterated Functions Systems for Grammatical Synthesis of 3D Models**
Luis E. Da Costa and Jacques-Andre Landry
- An Unsupervised Clustering Algorithm for Intrusion Detection**
Yu Guan, Ali A. Ghorbani, and Nabil Belacel
- Dueling CSP Representations: Local Search in the Primal Versus Dual Constraints Graph**
Mingyan Huang, Zhiyong Liu, and Scott D. Goodwin
- A Quick Look at Methods for Mining Subsequences in Databases**
Linhui Jiang
- Back to the Future: Changing the Direction of Time to Discover Causality**
Kamran Karimi
- Learning Coordination in RoboRescue**
Sebastien Paquet
- Accent Classification Using Support Vector Machine and Hidden Markov Model**
Hong Tang and Ali A. Ghorbani
- A Neural Network Based Approach to the Artificial Aging of Facial Images**
Jeff Taylor
- Adaptative Negotiation for Agent Based Distribution Manufacturing Scheduling**
Chun Wang, Weiming Shen, and Hamada Ghenniwa
- Multi-agent Architecture for Tracking Moving Objects**
Y. Wang and E. Shakshuki