Table of Contents

Regular Papers

On the Usefulness of Extracting Syntactic Dependencies for Text Indexing ................................................................. 3
Miguel A. Alonso, Jesús Vilares, Víctor M. Darriba

Using Latent Semantic Indexing as a Measure of Conceptual Association for Noun Compound Disambiguation ....................... 12
Alan M. Buckeridge, Richard F.E. Sutcliffe

RADAR: Finding Analogies Using Attributes of Structure .......... 20
Brian P. Crean, Diarmuid O’Donoghue

Classifying Languages Based on Speech Rhythm ......................... 28
Fred Cummins

Finding Agents in a Two-Dimensional Boolean STaM ..................... 36
Jim Doran

Neuro-symbolic System for Forecasting Red Tides ......................... 45
Florentino Fdez-Riverola, Juan M. Corchado, Jesús M. Torres

Improved Learning for Hidden Markov Models Using Penalized Training ................................................................. 53
Bill Keller, Rudi Lutz

Recovering High-Level Structure of Software Systems Using a Minimum Description Length Principle ............................. 61
Rudi Lutz

A System for Multi-agent Information Retrieval ......................... 70
Paula Mc Dermott, Colm O’Riordan

All There Is to the Mind Is to Have the Right Genes, or, Consciousness as a Form of Genetic Engineering ......................... 78
Ajit Narayanan

Towards Robust Collaborative Filtering ..................................... 87
Michael P. O’Mahony, Neil J. Hurley, Guenole C.M. Silvestre

GVR: A New Genetic Representation for the Vehicle Routing Problem ... 95
Francisco B. Pereira, Jorge Tavares, Penousal Machado, Ernesto Costa
An Empirical Comparison of Particle Swarm and Predator Prey Optimisation ...................................................... 103  
  Arlindo Silva, Ana Neves, Ernesto Costa

Data Mining Support for Case-Based Collaborative Recommendation ....................................................... 111  
  Barry Smyth, David Wilson, Derry O’Sullivan

The Feasibility of Machine Learning for Query Answering – An Experiment in Two Domains .......................... 119  
  Richard F.E. Sutcliffe, Kieran White

Meta-knowledge Annotation for Efficient Natural-Language Question-Answering ...................................... 127  
  Tony Veale

Concise Papers

Financial Time Series Modelling Using Neural Networks: An Assessment of the Utility of a Stacking Methodology .............................. 137  
  Anthony Brabazon

Experiments in Sparsity Reduction: Using Clustering in Collaborative Recommenders .................................................... 144  
  Derek Bridge, Jerome Kelleher

Identification of Visual Features Using a Neural Version of Exploratory Projection Pursuit ............................. 150  
  Emilio Corchado, Colin Fyfe

How People Compare an Item’s Placement in Two Alternative Categories ........................................................ 158  
  Fintan Costello

Investigations into Market Index Trading Models Using Evolutionary Automatic Programming .......................... 165  
  Ian Dempsey, Michael O’Neill, Anthony Brabazon

An Interactive Story Engine ........................................... 171  
  Chris Fairclough, Pádraig Cunningham

Coherence, Explanation, and Bayesian Networks ......................... 177  
  David H. Glass

Combining Case-Based Reasoning and Analogical Reasoning in Software Design ........................................... 183  
  Paulo Gomes, Francisco C. Pereira, Nuno Seco, Paulo Paiva, Paulo Carreiro, José L. Ferreira, Carlos Bento
Combination Methods for Improving the Reliability of Machine Translation Based Cross-Language Information Retrieval

Gareth J.F. Jones, Adenike M. Lam-Adesina

A System for Music Information Retrieval

Orla Lahart, Colm O’Riordan

A New Bayesian Network Structure for Classification Tasks

Michael G. Madden

Evaluating Preference-Based Feedback in Recommender Systems

Lorraine Mc Ginty, Barry Smyth

Design of a Musical Instrument Classifier System Based on Mel Scaled Cepstral Coefficient Supervectors and a Supervised Two-Layer Feedforward Neural Network

Declan McGrath

An Interactive Learning Environment for Knowledge Engineering

David McSherry

Customising a Copying-Identifier for Biomedical Science Student Reports: Comparing Simple and Smart Analyses

Julia Medori, Eric Atwell, Paul Gent, Clive Souter

A Hybridised GA for the Steiner Minimal Tree Problem

R. Panadero, J.L. Fernández-Villacañas

Speaking Autonomous Intelligent Devices

Robert J. Ross, Bryan McEleney, Robert Kelly, Tarek Abu-Amer, Michael Walsh, Julie Carson-Berndsen, Gregory M.P. O’Hare

Author Index
Artificial Intelligence and Cognitive Science
13th Irish International Conference, AICS 2002,
Limerick, Ireland, September 12-13, 2002. Proceedings
O'Neill, M.; Sutcliffe, R.F.E.; Ryan, C.; Eaton, M. (Eds.)
2002, XII, 252 p., Softcover
ISBN: 978-3-540-44184-7