# Table of Contents

## Invited Papers

Integrating Background Knowledge into Nearest-Neighbor Text Classification ............................ 1  
*Sarah Zelikovitz, Haym Hirsh*

Applying Knowledge Management: Techniques for Building Organisational Memories ....................... 6  
*Ian Watson*

## Research Papers

On the Complexity of Plan Adaptation by Derivational Analogy in a Universal Classical Planning Framework ........................................ 13  
*Tsz-Chiu Au, Héctor Muñoz-Avila, Dana S. Nau*

Inductive Learning for Case-Based Diagnosis with Multiple Faults ........................................ 28  
*Joachim Baumeister, Martin Atzmüller, Frank Puppe*

Diverse Product Recommendations Using an Expressive Language for Case Retrieval ........................ 43  
*Derek Bridge, Alex Ferguson*

Digital Image Similarity for Geo-spatial Knowledge Management ........................................... 58  
*James D. Carswell, David C. Wilson, Michela Bertolotto*

Poetry Generation in COLIBRI ........................................................................ 73  
*Belen Diaz-Agudo, Pablo Gervás, Pedro A. Gonzalez-Calero*

Adaptation Using Iterated Estimations ......................................................... 88  
*Göran Falkman*

The Use of a Uniform Declarative Model in 3D Visualisation for Case-Based Reasoning .................. 103  
*Göran Falkman*

Experiments on Case-Based Retrieval of Software Designs ........................................ 118  
*Paulo Gomes, Francisco C. Pereira, Paulo Paiva, Nuno Seco, Paulo Carreiro, José L. Ferreira, Carlos Bento*

Exploiting Taxonomic and Causal Relations in Conversational Case Retrieval .......................... 133  
*Kalyan Moy Gupta, David W. Aha, Nabil Sandhu*
Bayesian Case Reconstruction ........................................ 148
   Daniel N. Hennessy, Bruce G. Buchanan, John M. Rosenberg

Relations between Customer Requirements, Performance Measures, 
and General Case Properties for Case Base Maintenance ............ 159
   Ioannis Iglezakis, Thomas Reinartz

Representing Temporal Knowledge for Case-Based Prediction ....... 174
   Martha Dørum Jære, Agnar Aamodt, Pål Skalle

Local Predictions for Case-Based Plan Recognition .................. 189
   Boris Kerkez, Michael T. Cox

Automatically Selecting Strategies for Multi-Case-Base Reasoning .... 204
   David B. Leake, Raja Sooriamurthi

Diversity-Conscious Retrieval ........................................ 219
   David McSherry

Improving Case Representation and Case Base Maintenance 
in Recommender Agents ............................................ 234
   Miquel Montaner, Beatriz López, Josep Lluís de la Rosa

Similarity Assessment for Generalized Cases by Optimization Methods ... 249
   Babak Mougouie, Ralph Bergmann

Case Acquisition in a Project Planning Environment .................. 264
   Sasidhar Mukkamalla, Héctor Muñoz-Avila

Improving Case-Based Recommendation: 
A Collaborative Filtering Approach .................................. 278
   Derry O’ Sullivan, David Wilson, Barry Smyth

Efficient Similarity Determination and Case Construction Techniques 
for Case-Based Reasoning ............................................ 292
   David W. Patterson, Niall Rooney, Mykola Galushka

Constructive Adaptation ............................................. 306
   Enric Plaza, Josep-Lluís Arcos

A Fuzzy Case Retrieval Approach Based on SQL 
for Implementing Electronic Catalogs .................................. 321
   Luigi Portinale, Stefania Montani

Integrating Hybrid Rule-Based with Case-Based Reasoning .......... 336
   Jim Prentzas, Ioannis Hatzilygeroudis

Search and Adaptation in a Fuzzy Object Oriented Case Base .......... 350
   Magali Ruet, Laurent Geneste
Deleting and Building Sort Out Techniques for Case Base Maintenance  ... 365
  Maria Salamó, Elisabet Golobardes

Entropy-Based vs. Similarity-Influenced: Attribute Selection Methods  
for Dialogs Tested on Different Electronic Commerce Domains ......... 380
  Sascha Schmitt, Philipp Dopichaj, Patricia Domínguez-Marín

Category-Based Filtering and User Stereotype Cases  
to Reduce the Latency Problem in Recommender Systems .......... 395
  Mikael Sollenborn, Peter Funk

Defining Similarity Measures: Top-Down vs. Bottom-Up ............. 406
  Armin Stahl

Learning to Adapt for Case-Based Design  ......................... 421
  Nirmalie Wiratunga, Susan Craw, Ray Rowe

An Approach to Aggregating Ensembles of Lazy Learners  
That Supports Explanation ......................................... 436
  Gabriele Zenobi, Pádraig Cunningham

An Experimental Study of Increasing Diversity for Case-Based Diagnosis .. 448
  Lu Zhang, Frans Coenen, Paul Leng

Application Papers

Collaborative Case-Based Recommender Systems  .................. 460
  Stefano Aguzzoli, Paolo Avesani, Paolo Massa

Tuning Production Processes through a Case Based Reasoning Approach  475
  Stefania Bandini, Sara Manzoni, Carla Simone

An Application of Case-Based Reasoning to the Adaptive Management  
of Wireless Networks .............................................. 490
  Massimo Barbera, Cristina Barbero, Paola Dal Zovo, Fernanda Farinaccio,  
  Evangelos Gkroustiotis, Sofoklis Kyriazakos, Ivan Mura, Gianluca Previti

A Case-Based Personal Travel Assistant for Elaborating User Requirements  
and Assessing Offers .............................................. 505
  Lorcan Coyle, Pádraig Cunningham, Conor Hayes

An Automated Hybrid CBR System for Forecasting .................. 519
  Florentino Fdez-Riverola, Juan M. Corchado, Jesús M. Torres

Using CBR for Automation of Software Design Patterns ............ 534
  Paulo Gomes, Francisco C. Pereira, Paulo Paiva, Nuno Seco,  
  Paulo Carreiro, José L. Ferreira, Carlos Bento
A New Approach to Solution Adaptation and Its Application for Design Purposes ............................. 549
Mahmoudreza Hejazi, Kambiz Badie

InfoFrax: CBR in Fused Cast Refractory Manufacture ................. 560
Deepak Khemani, Radhika B. Selvamani, Ananda Rabi Dhar,
S.M. Michael

Comparison-Based Recommendation ...................................... 575
Lorraine Mc Ginty, Barry Smyth

Case-Based Reasoning for Estuarine Model Design ...................... 590
Sara Passone, Paul W.H. Chung, Vahid Nassehi

Similarity Guided Learning of the Case Description and Improvement of the System Performance in an Image Classification System .......... 604
Petra Perner, Horst Perner, Bernd Müller

ITR: A Case-Based Travel Advisory System .............................. 613
Francesco Ricci, Bora Arslan, Nader Mirzadeh, Adriano Venturini

Supporting Electronic Design Reuse by Integrating Quality-Criteria into CBR-Based IP Selection ............... 628
Martin Schaaf, Rainer Maximini, Ralph Bergmann, Carsten Tautz,
Ralph Traphöner

Building a Case-Based Decision Support System for Land Development Control Using Land Use Function Pattern ...... 642
Xingwen Wang, Anthony G.O. Yeh

Author Index ............................................................................ 655
Advances in Case-Based Reasoning
Craw, S.; Preece, A. (Eds.)
2002, XII, 656 p., Softcover
ISBN: 978-3-540-44109-0