Electronic Transactions on Artificial Intelligence

Editor: Erik Sandewall

Volume 5 - 2001

Section B2 - Selected Articles from the Machine Intelligence 18 Workshop

Section Editor: Stephen Muggleton

Royal Swedish Academy of Sciences
Scientific Patron
Publisher of the paper edition

European Coordinating Committee for Artificial Intelligence
Scientific Patron

Linköping University
Publisher of the electronic edition

ISSN, print: 1403-3534; electronic: 1403-3526
URL: http://www.ep.liu.se/ej/etai/

Policy committee for 2001

Erik Sandewall, Linköping University, Sweden
Roger Wäppling[1], Uppsala University, Sweden
Luigia Aiello, University of Rome 'La Sapienza', Italy
Anthony Cohn, University of Leeds, United Kingdom
Vadim Stefanuk, IPPI, Russian Academy of Science, Moscow, Russia
Wolfgang Wahlster, DFKI, Germany

Area and Section Editorial Committee for Proceedings from the Machine Intelligence Workshops

Area editor: Stephen Muggleton, University of York, U.K.

Area editorial committee:
James Cussens, University of York, U.K.
Koichi Furukawa, Keio University, Japan (International Secretary).
Donald Michie, University of Edinburgh, U.K.
Stephen Muggleton, University of York, U.K.
Nils Nilsson, Stanford University, Calif., USA.
Luc De Raedt, Albert-Ludwigs-University, Freiburg, Germany.
Erik Sandewall, Linköping University, Sweden.

[1]Nominated by the Royal Swedish Academy of Sciences.

Table of Contents

Ross D. King, Nathalie Marchand-Geneste, and Bjørn K. Alsberg: *A quantum mechanics based representation of molecules for machine inference.*
Refereed Article. 127-142

Erik Sandewall: *On the Design of Software Individuals.*
Refereed Article. 143-160

Jacques Cohen: *Classification of approaches used to study cell regulation: Search for a unified view using constraints and machine learning.*
Refereed Article. 161-188

Claude Sammut: *Managing Context in a Conversational Agent.*
Refereed Article. 189-202

Donald Michie: *Return of the Imitation Game.*
Refereed Article. 203-221

Philip G.K. Reiser, Ross D. King, Douglas B. Kell, Stephen H. Muggleton, Christopher H. Bryant, and Stephen G. Oliver: *Developing a Logical Model of Yeast Metabolism.*
Refereed Article. 223-244

A.P. Cootes, S.H. Muggleton, R.B. Greaves, and M.J. Sternberg: *Automatic determination of protein fold signatures from structured superposition.*
Refereed Article. 245-274

Area Editorial Committees, continued

Intelligent User Interfaces

Area editor: Elisabeth André, DFKI, Saarbrcken, Germany

Niels Ole Bernsen, Odense University, Denmark
Peter Brusilovsky, Carnegie-Mellon University, USA
Lynda Hardmann, CWI, The Netherlands
James Lester, North Carolina State University, USA
Joe Marks, MERL, USA
Chris Mellish, University of Edinburgh, UK
Ehud Reiter, University of Aberdeen, UK
Constantine Stephanidis, FORTH, Greece
Oliviero Stock, IRST, Italy
Annika Waern, SICS, Sweden

Planning and Scheduling

Area editor: Susanne Biundo, University of Ulm, Germany

Berthe Choueiry, Stanford University, USA
Brian Drabble, CIRL, University of Oregon, USA
Mark Drummond, Electric Time Software, USA
James Hendler, University of Maryland, USA
Joachim Hertzberg, GMD, St Augustin, Germany
Witold Łukaszewicz, Warsaw University, Poland
Sam Steel, University of Essex, United Kingdom
Sylvie Thiébaux, IRISA, Rennes, France
Paolo Traverso, IRST, Trento, Italy

Reasoning about Actions and Change

Area editor: Erik Sandewall, Linköping University, Sweden

Enrico Giunchiglia, University of Genoa, Italy
Andreas Herzig, Université Paul Sabatier, Toulouse, France
Vladimir Lifschitz, University of Texas, USA
Rob Miller, London University, United Kingdom
Leora Morgenstern, IBM Thomas J Watson Research Center, USA
Luís Moniz Pereira, New University of Lisbon, Portugal
Ray Reiter, University of Toronto, Canada
Murray Shanahan, Imperial College, United Kingdom
Michael Thielscher, Technical University of Dresden, Germany