Electronic Transactions on Artificial Intelligence

Editor: Erik Sandewall

Volume 1, Issue 4

October – December, 1997

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

Erik Sandewall, Linköping University, Sweden
Luigia Aiello, University of Rome 'La Sapienza', Italy
Anthony Cohn, University of Leeds, United Kingdom
Olivier Faugeras, INRIA Sophia-Antipolis, France
Vadim Stefanuk, IPPI, Russian Academy of Science, Moscow, Russia
Wolfgang Wahlster, DFKI, Germany

Editorial committees

Planning and Scheduling

Area editor: Susanne Biundo, University of Freiburg, 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 Lukaszewicz, 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, IRIT, 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, Queen Mary and Westfield College, United Kingdom
Michael Thielscher, Technical University of Darmstadt, Germany

Intelligent User Interfaces

Area editor: Elisabeth André, DFKI, Saarbrücken, 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

Table of Contents

Antonis Kakas and Rob Miller: *Reasoning about Actions, Narratives, and Ramification.*
Refereed Article. 39-72

Michael Thielscher: *A Theory of Dynamic Diagnosis.*
Refereed Article. 73-104

Erik Sandewall: *Logic-Based Modelling of Goal-Directed Behavior.*
Refereed Article. 105-128

Paolo Liberatore: *Compilability of Domain Descriptions in the Language $\mathcal{A}$.*
Refereed Research Note. 129-132