

The knowledge engineering review

VOLUME 27 NUMBER 1 MARCH 2012

CAMBRIDGE
UNIVERSITY PRESS

ISSN 0269-8889

The knowledge engineering review

EDITORS

Professor Simon Parsons, City University of New York, USA
Dr Peter McBurney, Kings College London, UK

TUTORIALS EDITOR

Dr Iyad Rahwan, Masdar Institute of Science and Technology

FOUNDING EDITOR

Professor John Fox, University of Oxford, UK

EDITORIAL BOARD

Professor Jacky Baltes
University of Manitoba, Canada
Professor J. Christopher Beck
University of Toronto, Canada
Dr Patrick Brézillon
University Paris, France
Professor Odest Chad Jenkins
Brown University, USA
Professor Xiaoping Chen
University of Science and Technology of China
Dr Frans Coenen
University of Liverpool, UK
Dr Stephen Cranefield
University of Otago, New Zealand
Professor Keith Decker
University of Delaware, USA
Professor Noémie Elhadad
Columbia University, USA
Dr Maria Fasli
Essex University, UK
Dr Yolanda Gil
University of Southern California, USA
Professor C. Lee Giles
The Pennsylvania State University, USA
Dr Carla Gomes
Cornell University, USA

Dr Anthony Hunter
University College London, UK
Professor Kate Larson
University of Waterloo, Canada
Professor Khaled Mellouli
Institute des Hautes Etudes Commerciales, Tunisia
Professor Ann Nicholson
Monash University, Australia
Dr Ann Nowe
VUB, Brussels, Belgium
Professor Alun Preece
Cardiff University, UK
Dr Juan Antonio Rodriguez-Aguilar
Artificial Intelligence Research Institute, Spain
Dr Sandip Sen
University of Tulsa, USA
Professor Jaime Sichman
University of São Paulo, Brazil
Professor Guillermo Simari
Universidad Nacional del Sur, Argentina
Professor Liz Sonenberg
University of Melbourne, Australia
Dr Mirko Viroli
University of Bologna - Cesena, Italy
Dr Rogier van Eijk
Utrecht University, the Netherlands

The Knowledge Engineering Review: Publication Policy

The Knowledge Engineering Review has been established to provide a general source of information and analysis in all areas relevant to research and development in knowledge based systems and applied artificial intelligence. The editors wish to encourage careful preparation of original papers analysing developments in the field. In particular we wish to see tutorial and survey articles, and commentary, criticism and debate. Primary research papers on specialised technical topics are unlikely to be appropriate but research papers on broad topics, such as development methodology or general evaluations of tools and techniques, are of interest. Descriptions of specific projects or particular computer systems will be considered if their presentation draws out general issues in the design, implementation or impact of knowledge based systems.

Subscriptions

THE KNOWLEDGE ENGINEERING REVIEW (ISSN 0269-8889) is published quarterly in March, June, September and December. Four parts form a volume. Orders, which must be accompanied by payment, should be sent to any bookseller or subscription agent, or direct to Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU. Subscriptions in the USA or Canada should be sent to Cambridge University Press, 100 Brook Hill Drive, West Nyack, New York 10994-2133. The subscription price (which includes delivery by air where appropriate plus electronic access to institutional subscribers, but excludes VAT) of volume 27, 2012 is £400 (US\$715 in the USA and Canada) for institutions; £110 (US\$190 in the USA and Canada) for individuals, including postage; separate parts cost £100 (US\$170 in the USA and Canada) plus postage. EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number.

Japanese prices for institutions are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo 156, Japan. POSTMASTER: send address changes in USA and Canada to The Knowledge Engineering Review, Cambridge University Press, 100 Brook Hill Drive, West Nyack, New York 10994-2133.

Copying

This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923. Organisations in the USA, also registered with the C.C.C., may therefore copy material (beyond the limits permitted by sections 107 and 108 of US copyright law) subject to payment to C.C.C. of the per-copy fee of \$12.00. This consent does not extend to multiple copy for promotional or commercial purposes. Code 0269-8889/2012 \$12.50+0.10.

FOR ALL OTHER USE, permission should be sought from the Cambridge or New York offices of the Cambridge University Press.

CLAIMS for missing issues can only be considered if made immediately after receipt of the subsequent issue.

BACK VOLUMES: Volumes 1–7 are available from Swets and Zeitlinger at P.O. Box 810, 2160 SZ Lisse, The Netherlands. Volumes 8–25 are available from Cambridge University Press.

ADVERTISING: Details of advertising in The Knowledge Engineering Review may be obtained from the publisher.

Information on *The Knowledge Engineering Review* and all other Cambridge journals can be accessed via journals.cambridge.org. For further information on other Press titles access journals.cambridge.org

INTERNET ACCESS. This journal is included in the Cambridge Journals Online service which can be found at journals.cambridge.org/ker