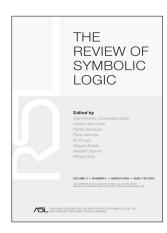
CAMBRIDGE

JOURNALS



THE REVIEW OF SYMBOLIC LOGIC

Published for the Association of Symbolic Logic

Review of Symbolic Logic

is available online at: http://journals.cambridge.org/rsl

To subscribe contact Customer Services

in Cambridge:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org

Co-ordinating Editor

Professor Aldo Antonelli, University of California, Irvine

The Association of Symbolic Logic and Cambridge University Press are pleased to announce the founding of a new journal, The Review of Symbolic Logic. Publishing research papers in:

- * Philosophical and non-classical logics and their applications
- * History and philosophy of logic
- * Philosophy and methodology of mathematics

Price information is available at: http://journals.cambridge.org/rsl

Free email alerts

Keep up-to-date with new material – sign up at http://journals.cambridge.org/alerts

For free online content visit: http://journals.cambridge.org/rsl



JOURNALS



Mathematical Structures in Computer Science

Mathematical Structures in Computer Science

is available online at: http://journals.cambridge.org/msc

To subscribe contact Customer Services

in Cambridge:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org

Editor-in-Chief

G. Longo, CNRS and Ecole Normale Supérieure, Paris, France

Mathematical Structures in Computer Science is a journal of theoretical computer science which focuses on the application of ideas from the structural side of mathematics and mathematical logic to computer science. The journal aims to bridge the gap between theoretical contributions and software design, publishing original papers of a high standard and broad surveys with original perspectives in all areas of computing, provided that ideas or results from logic, algebra, geometry, category theory or other areas of logic and mathematics form a basis for the work.

Price information is available at: http://journals.cambridge.org/msc

Free email alerts

Keep up-to-date with new material – sign up at http://journals.cambridge.org/alerts

For free online content visit: http://journals.cambridge.org/msc



JOURNALS



The Knowledge Engineering Review

The Knowledge Engineering Review

is available online at: http://journals.cambridge.org/ker

To subscribe contact Customer Services

in Cambridge:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org

Editors

Peter McBurney, University of Liverpool, UK Simon Parsons, Brooklyn College, City University of New York, USA

The Knowledge Engineering Review is committed to the development of the field of artificial intelligence and the clarification and dissemination of its methods and concepts.

The Journal publishes analyses – high quality surveys providing balanced but critical presentations of the primary concepts in an area; technical tutorials – detailed introductions to an area; application and country surveys commentaries and debates; book reviews; and a popular 'from the journals' section, giving the contents of current journals in theoretical and applied artificial intelligence.

Pricing information is available at: http://journals.cambridge.org/ker

Free email alerts

Keep up-to-date with new material – sign up at http://journals.cambridge.org/alerts

For free online content visit: http://journals.cambridge.org/ker



SUBSCRIPTIONS

Theory and Practice of Logic Programming (ISSN 1471-0684), is published bi-monthly in January, March, May, July, September and November by Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge, CB2 8RU, UK/Cambridge University Press, 32 Avenue of the Americas, New York, N.Y. 10013-2473. The subscription price (excluding VAT) of Volume 9, 2009 is £270 net (USA, Canada and Mexico US\$520), for institutions print and electronic or £240 net, (USA, Canada and Mexico US\$445) electronic only, single parts cost £57, \$100 plus postage. Discounted individual rates (print only) are £66, \$120. There is a preferential rate for members of The Association of Logic Programming and The Association of Computing Machinery – please enquire. Six parts form a volume. 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. Orders, which must be accompanied by payment, may be sent to any bookseller, subscription agent or to the publisher: Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge, CB2 8RU, or in the USA, Canada and Mexico to Cambridge University Press Journals Fulfillment Department, 100 Brook Hill Drive, West Nyack, New York 10994-2133. Prices include delivery by air where appropriate. Periodicals postage paid at New York, NY and at additional mailing offices, Japanese prices are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo, 156, Japan. Postmaster: send address changes in USA, Canada and Mexico to Journal of Theory and Practice of Logic Programming, Cambridge University Press, 100 Brook Hill Drive, West Nyack, New York 10994-2133. Claims for missing issues should be made immediately on receipt of the subsequent issues.

© Cambridge University Press 2009

INSTRUCTIONS TO AUTHORS

Aims and scope

Theory and Practice of Logic Programming is an international journal that publishes refereed papers covering both the theory and the practice of logic programming. Among the topics covered are AI applications that use logic programming, logic programming methodologies, specification, analysis and verification of systems, inductive logic programming, multi-relational data mining, natural language processing, knowledge representation, nonmonotonic reasoning, semantic web reasoning, databases, implementations and architectures and constraint logic programming.

TPLP is the sole official journal of the Association for Logic Programming (http://www.cs.kuleuven.be/~dtai/projects/ALP) and is offered to its members at a preferential rate. It is also endorsed by SPARC, the Scholarly Publishing & Academic Resources Coalition (URL: www.arl.org/sparc).

Submission of manuscripts

Electronic submissions: The preferred form of submission is to send two email messages, the first one with the information containing the title, the author(s), and the abstract of the submission, and the second one with a Postscript file. Both emails should be sent to the appropriate Area Editor with a copy to the Editor-in-Chief. If in doubt about the most appropriate area, contact the Editor-in-Chief.

Paper submissions: These are also acceptable, but their handling may be delayed (four copies to the appropriate Area Editor and one copy to the Editor-in-Chief).

The submitted manuscripts should not be published or simultaneously submitted to another journal or to a conference. Full versions of important conference papers are welcome. Upon acceptance of an article by the journal, the author(s) will be asked to transfer copyright of the article to Cambridge University Press.

Book Reviews

Books for review, or suggestions for reviews, should be sent to the book reviews editor.

Logic Programming Pearls

Successful cases of elegant and efficient logic programs will appear in a section called Logic Programming Pearls. Please submit to the Logic Programming Pearls editor.

Technical notes

Technical notes should not exceed 5000 words in length, excluding tables, figures, and the bibliography. They are given quick turnaround and should be submitted, preferably electronically, to the Technical Notes editor. Submissions should include an abstract and a reasonable accurate word count for the paper (excluding tables and figures, and the bibliography).

$Electronic\ manuscripts$

The publisher encourages the submission of final manuscripts written in LaTeX which can be used for direct typesetting. Authors can download style files from the CUP anonymous ftp site in a packed or unpacked form. The packed form is available from:

ftp://ftp.cambridge.org/pub/texarchive/journals/latex/tlp-cls and the unpacked files are in a directory / unpacked.

Layout

Manuscripts should begin with an abstract of not more than 300 words at the end of which are 4 or 5 keywords. Avoid footnotes whenever possible. Papers should conform to a good standard of English prose; please consult a style guide such as 'The Elements of Style' by Strunk and White, Macmillan, New York. Presenting Programs in one of the following two styles is encouraged: either with identifiers in italic and keywords in bold or entirely in a fixed-width teletype font. Do not begin a sentence with a symbol or identifier name.

Illustrations

Supply these as eps files as the publisher cannot use original TeX files of illustrations. A hardcopy printout needs to be supplied of each illustration.

References

The Harvard system of references should be used. See style files.

Proofreading

Be sure to submit papers in their final form. Typographical and factual errors only may be changed at proof stage. The publisher reserves the right to charge authors for extensive changes to their paper. No page charge is made. The spelling policy of the journal is to follow author's American or British spelling as long as it is consistent within the paper.

Offprints

A free pdf of the published article will be supplied to each first named author. Papers offprints may be purchased upon request.

Please contact the editors for additional information or clarification of anything above.

COPYING

The journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA, 01923, USA. Organisations in the USA who are also registered with the CCC may therefore copy material (beyond the limits permitted by sections 107 and 108 of the US copyright law) subject to payment to CCC of the per-copy fee of \$16.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 1471-0684/09 \$16.00. Organisations authorised by the Copyright Licensing Agency may also copy material subject to the usual conditions.

ISI Tear Service, 3501 Market Street, Philadelphia, Pennsylvania 19104, USA, is authorised to supply single copies of separate articles for private use only. For all other use, permission should be sought from Cambridge UK or the American Branch of Cambridge University Press.

This journal issue has been printed on FSC-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

 $Printed\ in\ the\ United\ Kingdom\ at\ the\ University\ Press,\ Cambridge$

Theory and Practice of Logic Programming

VOLUME 9 PART 5 SEPTEMBER 2009

Contents

Regular papers

- 565 Characterising equilibrium logic and nested logic programs:
 Reductions and complexity

 DAVID PEARCE, HANS TOMPITS AND STEFAN WOLTRAN
- 617 Optimality in goal-dependent analysis of Sharing
 GIANLUCA AMATO AND FRANCESCA SCOZZARI



Cambridge Journals Online
For further information about this journal please go to the journal website at:
journals.cambridge.org/tlp



