

New Titles from Cambridge University Press

Methods of Argumentation

Douglas Walton

Argumentation, which can be abstractly defined as the interaction of different arguments for and against some conclusion, is an important skill for everyday life, law, science, politics, and business. This book, written by a leading expert, and based on the latest research, shows how to apply methods of argumentation to a range of interesting examples. Written in a nontechnical style, the book explains what you most need to know by applying the methods to many real examples of arguments found in everyday conversational exchanges and legal argumentation.

\$95.00: Hardback: 978-1-107-03930-8: 322 pp.

\$32.99: Paperback: 978-1-107-67733-3

Mobility Data

Modeling, Management, and Understanding

*Edited by Chiara Renso,
Stefano Spaccapietra, and
Esteban Zimányi*

Mobility of people and goods is essential in the global economy. The ability to track the routes and patterns associated with this mobility offers unprecedented opportunities for developing new, smarter applications in different domains. Written by a renowned group of worldwide experts, this book surveys the myriad facets of monitoring people in motion, from spatio-temporal data modeling, to data aggregation and warehousing, to data analysis.

\$80.00: Hardback: 978-1-107-02171-6: 368 pp.

Brain-Computer Interfacing

An Introduction

Rajesh P. N. Rao

This introduction to the field of brain-computer interfacing is designed as a textbook for upper-level undergraduate and first-year graduate courses in neural engineering or brain-computer interfacing for students from a wide range of disciplines. It can also be used as a reference by neuroscientists, computer scientists, engineers, and medical practitioners.

\$80.00: Hardback: 978-0-521-76941-9: 352 pp.

*Prices subject to change.***Who's Bigger?**

Where Historical Figures Really Rank

Steven Skiena and Charles B. Ward

In this fascinating book, Steve Skiena and Charles Ward bring quantitative analysis to bear on ranking and comparing historical reputations by aggregating the traces of millions of opinions, just as Google ranks webpages. They present rankings of more than one thousand of history's most significant people in science, politics, entertainment, and all areas of human endeavor.

\$27.99: Hardback: 978-1-107-04137-0: 408 pp.

Fundamentals of Stream Processing

Application Design, Systems, and Analytics

Henrique C. M. Andrade, Buğra Gedik, and Deepak S. Turaga

This book teaches fundamentals of the stream processing paradigm that addresses performance, scalability, and usability challenges in extracting insights from massive amounts of live, streaming data. It presents core principles behind application design, system infrastructure, and analytics, coupled with real-world examples for a comprehensive understanding of the stream processing area.

\$99.00: Hardback: 978-1-107-01554-8: 624 pp.



www.cambridge.org/computerscience

 @cambUP_maths

800.872.7423



CAMBRIDGE
UNIVERSITY PRESS

Robotica

An Official Journal of the
International Federation of Robotics

Editor-in-Chief

G. S. Chirikjian, *Johns Hopkins University, USA*

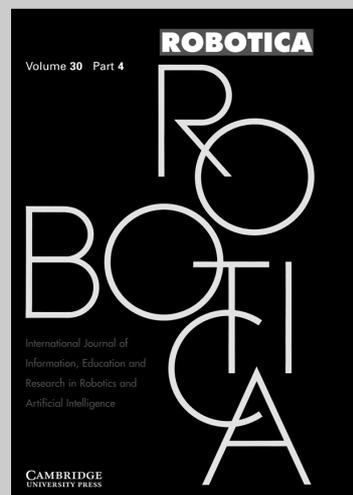
Robotica provides an international forum for the multidisciplinary subject of robotics and encourages developments in this important field of automation with regard to industry, education and research. It covers the many aspects of robotics, including sensory perception, software, kinematics and dynamics involved in robot design, robot task planning and description, intelligibility of skilled motion, applications of robots in the service industries, world model representation, artificial intelligence, development of relevant educational courses, training methods, economic and cost problems and other items of theoretical and practical interest.

Price information

is available at: <http://journals.cambridge.org/rob>

Free email alerts

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

**Robotica**

is available online at:
<http://journals.cambridge.org/rob>

**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

For free online content visit:
<http://journals.cambridge.org/rob>



CAMBRIDGE
UNIVERSITY PRESS

The knowledge engineering review

Notes for Contributors

Editorial 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.

Submission of manuscripts

Contributions for publication should be submitted through <http://mc.manuscriptcentral.com/ker>. Submission implies that the manuscript has not been published previously, nor currently submitted for publication elsewhere. Upon acceptance of a manuscript, the author will be asked to transfer copyright to the publisher.

All contributions, whether articles, correspondence or reviews, must be sent in electronic form. Authors are encouraged to provide the final version of the contribution in LaTeX, TeX, or Word format.

Authors using LaTeX should ideally use the KER LaTeX style file which can be obtained using anonymous FTP from the internet address <ftp://ftp.cambridge.org/pub/texarchive/journals/latex/ker.cls>. In case of difficulties obtaining these files, there is a help-line available via e-mail; please contact texline@cup.cam.ac.uk. Tables and figures should be embedded in the article in the usual way, with figures in .eps form, which should be also supplied as separate files.

Contributions should follow the general style of papers in recent issues of The Knowledge Engineering Review. The author is invited to nominate up to five possible referees, who will not necessarily be used.

Articles must be accompanied by a brief, informative rather than indicative, abstract.

If you are not using the ker.cls file, then please adopt the following layout rules. Headings should be set out clearly but not underlined. Primary headings should be in lower case, at margin, with Arabic numeral; subheadings should be numbered 2.a., 2.b., etc., and tertiary headings, 2.a.1., 2.a.2. No cross-references should be given by page number, but 'above' and 'below' should be used with the section specified, e.g. Section 2.a.2. The SI system of units should be used. The author should mark in the margin of the manuscript where figures and tables may be inserted. References to points in larger works should, where possible, quote the page reference, e.g. Ager, 1981, p. 102.

Tables should be typed with double-line spacing on sheets separate from the running text. Each table must have a caption that will make the data in the table intelligible without reference to the text.

Illustrations should be drafted for reproduction as full page (148 mm) width. Originals should normally be drawn at twice final area and must be sent in a flat package; larger drawings may delay publication. Lettering should be of a size so that when reduced the smallest lower-case letters will not be less than about 1 mm. Avoid gross disparities in lettering size on a drawing. Duplicates of illustrations should be sent, and may be prints or, preferably, photocopies reduced to final size. Illustrations in the text, both line drawings and photographs for halftone reproductions, will be referred to as figures (Fig. 2, 2a, etc.). Folding plates will not be accepted. Figures composed of photographs should be glossy prints presented at publication scale. Figure captions must be typed with double-line spacing on sheets separate from the running text.

The preferred graphics package is Freehand 5 but files from many others can be accepted. Please indicate clearly the file format (e.g. TIFF, EPS, DCS, Freehand etc), computer operating system and graphics software used for originating the artwork files. The typefaces used in electronic artwork supplied should be restricted to Monotype, Adobe and Bitstream font libraries. Illustrations should be supplied as EPS files and never as Postscript files, or as the native format files from the graphics package used. They should be accompanied by laser proofs with the name and version number of the graphics package used, and also the names of the fonts used.

References

The accuracy of references is the responsibility of authors. References must be double-spaced and spelt out in full, e.g:

Gale, W A, ed 1986. *Artificial Intelligence and Statistics*, Reading, Massachusetts: Addison-Wesley.

Pearl, J 1984. *Heuristics. Intelligent search strategies for problem solving*, Reading, Massachusetts: Addison-Wesley.

Tie-Cheng Wang and Bledsoe, W W, 1987. "Hierarchical deduction" *Journal of Automated Reasoning* **3** (1) pp 1–34.

Pau, L F, 1986. "Survey of expert systems for fault detection, test generation and maintenance" *Expert Systems*, **3** (2) pp 100–111.

Unpublished work should normally be referred to in the text parentheses as, for example, 'private communication' or 'unpub. Ph.D. thesis, Univ. London, 1988', and not included in the reference list unless in the press.

Proof Reading:

Typographical or factual errors only may be changed at proof stage. The publisher reserves the right to charge authors for correction of non-typographical errors. No page charge is made.

Offprints:

No paper offprints are provided, but the corresponding author will be sent the pdf of the published article. Print offprints may be purchased at extra cost at proof stage.

© Cambridge University Press 2013

(Revised 11 June 2010)

ISSN 0269-8889

CAMBRIDGE UNIVERSITY PRESS

Published by the Press Syndicate of the University of Cambridge
The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, UK
32 Avenue of the Americas, New York, NY 10013-2473, USA
10 Stamford Road, Oakleigh, Melbourne 3166, Australia

Printed in the United Kingdom by Henry Ling Limited, at the Dorset Press, Dorchester, DT1 1HD

The knowledge engineering review

VOLUME 28 NUMBER 4 DECEMBER 2013

Contents

- Tutorial: Cooperative games and multiagent systems
STÉPHANE AIRIAU 381
- Decentralized case-based reasoning and Semantic Web technologies
applied to decision support in oncology
MATHIEU D'AQUIN, JEAN LIEBER and AMEDEO NAPOLI 425
- Scaling up classification rule induction through parallel processing
FREDERIC STAHL and MAX BRAMER 451
- Model-driven development of multiagent systems: a survey and evaluation
GEYLANI KARDAS 479

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

CAMBRIDGE
UNIVERSITY PRESS