# JOURNALS

# Natural Language Engineering

#### **Executive Editor**

Ruslan Mitkov, University of Wolverhampton, UK

Natural Language Engineering meets the needs of professionals and researchers working in all areas of computerised language processing, whether from the perspective of theoretical or descriptive linguistics, lexicology, computer science or engineering. Its aim is to bridge the gap between traditional computational linguistics research and the implementation of practical applications with potential real-world use. The journal publishes research articles on a broad range of topics, an industry-watch column and book reviews. JNLE now includes surveys, as well as squibs discussing specific problems.

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

## Free email alerts

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

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



Natural Language Engineering is available online at: http://journals.cambridge.org/nle

#### 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



## CAMBRIDGE

LOGIC TITLES from CAMBRIDGE UNIVERSITY PRESS!

## **Practical Foundations for Programming Languages**

**Robert Harper** 

In this innovative book, Professor Robert Harper offers a fresh perspective on the fundamentals of programming languages through the use of type theory. Whereas most textbooks on this subject emphasize taxonomy, Harper instead emphasizes genetics, examining the building blocks from which all programming languages are constructed. The result is an introduction to programming theory that is both accessible and practical.

\$75.00: Hb: 978-1-107-02957-6: 391 pp.

#### The World-Time Parallel

Tense and Modality in Logic and Metaphysics

A. A. Rini and M. J. Cresswell

Adriane Rini and Max Cresswell exhibit, in an easy step-by-step manner, the logical structure of temporal and modal discourse, and show that every temporal construction has an exact parallel that requires a language that can refer to worlds, and vice versa. They make precise, in a way which can be articulated and tested, the claim that the parallel is at work behind even ordinary talk about time and modality. \$95.00: Hb: 978-1-107-01747-4: 278 pp.

#### **Finite Ordered Sets**

Concepts, Results and Uses

Nathalie Caspard, Bruno Leclerc, and Bernard Monjardet

Encyclopedia of Mathematics and its Applications

Beginning with definitions of key concepts and fundamental results (Dilworth's and Sperner's theorem, interval and semiorders, Galois connection, duality with distributive lattices, coding and dimension theory), the authors then present applications of these structures in fields such as preference modelling and aggregation, operational research and management, cluster and concept analysis, and data mining.

\$90.00: Hb: 978-1-107-01369-8: 350 pp.

www.cambridge.org/us/mathematics @cambUP\_maths 800.872.7423



CAMBRIDGE

**UNIVERSITY PRESS** 

E-books

Available for most titles!

# CAMBRIDGE

## LOGIC TITLES from CAMBRIDGE UNIVERSITY PRESS!

#### Graph Structure and Monadic Second-Order Logic

A Language-Theoretic Approach

Bruno Courcelle and Joost Engelfriet

Encyclopedia of Mathematics and its Applications

The study of graph structure has advanced in recent years with great strides: finite graphs can be described algebraically, enabling them to be constructed out of more basic elements. Separately the properties of graphs can be studied in a logical language called monadic secondorder logic. In this book, these two features of graph structure are brought together for the first time in a presentation that unifies and synthesizes research over the last 25 years. The author not only provides a thorough description of the theory, but also details its applications, on the one hand to the construction of graph algorithms, and, on the other to the extension of formal language theory to finite graphs.

\$160.00: Hb: 978-0-521-89833-1: 742 pp.

## Malliavin Calculus for Lévy Processes and Infinite-Dimensional Brownian Motion

#### Horst Osswald

Cambridge Tracts in Mathematics

After functional, measure and stochastic analysis prerequisites, the author covers chaos decomposition, Skorohod integral processes, Malliavin derivative and Girsanov transformations.

\$110.00: Hb: 978-1-107-01614-9: 428 pp.

#### Programming with Higher-Order Logic

Dale Miller and Gopalan Nadathur

Formal systems in computer science frequently involve specifications of computations over syntactic structures. In this book, the authors develop a programming language based on a simply typed version of higher-order logic and show that it provides an elegant approach to performing computations over structures embodying binding.

\$65.00: Hb: 978-0-521-87940-8: 320 pp.

www.cambridge.org/us/mathematics @cambUP\_maths 800.872.7423



E-books Available for most titles!



# CAMBRIDGE

E-books Available for most titles!

## LOGIC TITLES from CAMBRIDGE UNIVERSITY PRESS!

#### A Course in Model Theory

Katrin Tent and Martin Ziegler

Lecture Notes in Logic

This concise introduction to model theory begins with standard notions and takes the reader through to more advanced topics such as stability, simplicity and Hrushovski constructions. The authors introduce the classic results, as well as more recent developments in this vibrant area of mathematical logic. Concrete mathematical examples are included throughout to make the concepts easier to follow. The book also contains over 200 exercises, many with solutions, making the book a useful resource for graduate students as well as researchers.

\$60.00: Hardback: 978-0-521-76324-0: 258 pp.

#### Wadge Degrees and Projective Ordinals

The Cabal Seminar Volume II

Edited by Alexander S. Kechris, Benedikt Löwe, and John R. Steel

Lecture Notes in Logic

The most seminal collection of papers of descriptive set theory reprinted and put into the modern research context.

\$75.00: Hardback: 978-0-521-76203-8: 548 pp.

## **Proofs and Computations**

Helmut Schwichtenberg and Stanley S. Wainer

Perspectives in Logic

**Contents:** Preface; Preliminaries; Part I. Basic Proof Theory and Computability: 1. Logic; 2. Recursion theory; 3. Godel's theorems; Part II. Provable Recursion in Classical Systems: 4. The provably recursive functions of arithmetic; 5. Accessible recursive functions,  $ID<\omega$  and  $\Pi 11-CA0$ ; Part III. Constructive Logic and Complexity: 6. Computability in higher types; 7. Extracting computational content from proofs; 8. Linear two-sorted arithmetic; Bibliography; Index. \$90.00: Hardback: 978-0-521-51769-0: 480 pp.

www.cambridge.org/us/mathematics @cambUP\_maths 800.872.7423



A COURSE IN ODEL THEORY

Prices subject to change.



## THE REVIEW OF SYMBOLIC LOGIC

#### **Information for Contributors**

**Aims and Scope.** The *Review of Symbolic Logic* is a newly established journal from the Association for Symbolic Logic, published in partnership with Cambridge University Press. The *Review of Symbolic Logic* will publish papers in: philosophical and non-classical logics, algebraic logic, and their applications in such fields as computer science, linguistics, game theory and decision theory, formal epistemology, and cognitive science; history and philosophy of logic; philosophy and methodology of mathematics, past and present.

**Submission of Manuscripts.** Manuscripts should be submitted to the Coordinating Editor at rsl@uci.edu. Electronic submission is encouraged: send email with the manuscript file attached in PDF format. The body of the email should include the title of the paper, the authors, its length in pages, and a clear-text copy of the abstract. Authors are encouraged to indicate which editor they would prefer to have handle their papers. Any method of producing the PDF is fine, but LaTex is recommended as it can be used for typesetting the final paper.

**Electronic Manuscripts.** The publisher encourages submission of manuscripts in LaTex which can be used for direct typesetting. Authors using LaTex should use the RSL LaTex class file. This along with related files, can be obtained using anonymous FTP from ftp://ftp.cambridge.org/pub/texarchive/journals/latex/rsl-cls. If you have difficulties obtaining these files please contact dtranah@cambridge.org; there is also a help-line available via email–please contact texline @cup.cam.ac.uk. While use of the RSL class file is preferred, plain LaTex or Tex files can also be accepted.

**Layout of Manuscripts.** Manuscripts should begin with an abstract of not more than 300 words. 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 (New York: Macmillan). Do not begin sentences with a symbol or identifier name. Present programs in one of two styles: either with identifiers in italics and keywords in bold, or entirely in a fixed-width teletype font. Please supply Web URLs for the home page of each author of the paper.

**References.** The Harvard system of references should be used. Citations are by author's surname and year of publication, and may stand either as a noun phrase (e.g., "Curry (1993)") or as a parenthetical note (e.g., "(Curry 1933)"). List references at the end of the text in alphabetical order. A typical entry is: Curry, H.B. (1933) Apparent variables from the standpoint of mathematical logic, *Ann. of Math.*, 34 (2): 381–404.

**Artwork.** To ensure that your figures are reproduced to the highest possible standards, Cambridge Journals recommends the following formats and resolutions for supplying electronic figures. LINE ARTWORK Format: tif or eps; Resolution: 1200 dpi. BLACK AND WHITE HALFTONE Format: tif; Resolution: 300 dpi. COMBINATION ARTWORK Format: tif; Resolution: 800 dpi. If you require further guidance on creating suitable electronic figures please visit http://dx.sheridan.com/guidelines/digital\_art.html. Here you will find extensive guidelines on preparing artwork and gain access to an online preflighting tool where you can check to see if your figures are suitable for reproduction. A list of captions for figures should be supplied in a separate file.

**Copyediting and Proofreading.** The publisher reserves the right to copyedit and proofread all articles for publication, but the corresponding author will receive page proofs for final proofreading. These should be checked and returned within three days of receipt. Only typo-graphical or factual errors may be changed at the proof stage. The publisher reserves the right to charge authors for excessive correction of non-typographical errors.

**Offprints.** No paper offprints are provided, but the corresponding author will be sent a link to the pdf of the published article.

**Home Page.** Information about *Review of Symbolic Logic* may be viewed on the Cambridge University Press home page. The location of this home page is: journals.cambridge.org/rsl

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

