CAMBRIDGE

E-books Available for most titles!

Great New Titles in Combinatorics from Cambridge University Press

Topics in Structural Graph Theory

Edited by Lowell W. Beineke and Robin J. Wilson Edited in consultation with Ortrud R. Oellermann Encyclopedia of Mathematics and its Applications
\$95.00: Hardback: 978-0-521-80231-4: 344 pp.

NOW IN PAPERBACK!

Exercises in Probability

A Guided Tour from Measure Theory to Random Processes, via Conditioning

Second Edition

Loïc Chaumont and Marc Yor

Cambridge Series in Statistical and Probabilistic Mathematics

\$48.00: Paperback: 978-1-107-60655-5: 304 pp.

Matroids: A Geometric Introduction

Gary Gordon and Jennifer McNulty

\$120.00: Hardback: 978-0-521-76724-8: 410 pp. \$44.99: Paperback: 978-0-521-14568-8

Circuit Double Cover of Graphs

Cun-Quan Zhang

London Mathematical Society Lecture Note Series \$70.00: Paperback: 978-0-521-28235-2: 375 pp.

Alan M. Turing

Centenary Edition

Sara Turing
Afterword by John F. Turing
Foreword by Lyn Irvine and Martin Davis

\$29.99: Hardback: 978-1-107-02058-0: 194 pp.



Prices subject to change.



JOURNALS

The Knowledge Engineering Review

Editors-in-Chief

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. KER 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, providing the contents of current journals in theoretical and applied artificial intelligence.

Price 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/ker-alerts



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

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

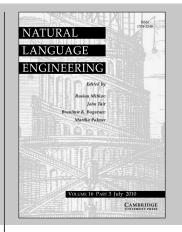


JOURNALS

Natural Language Engineering

Executive Editor

Ruslan Mitkov, University of Wolverhampton, UK



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

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.

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

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



JOURNALS

Organised Sound

Editor

Leigh Landy, De Montfort University, Leicester, UK

Organised Sound is an international peer-reviewed journal which focuses on the rapidly developing methods and issues arising from the use of technology in music today. It concentrates upon the impact which the application of technology is having upon music in a variety of genres, including multimedia, performance art, sound sculpture and music ranging from popular idioms to experimental electroacoustic composition. It provides a unique forum for anyone interested in electroacoustic music studies, its creation and related developments to share the results of their research as they affect musical issues. An accompanying DVD is sent to subscribers annually.



Organised Sound

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

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

Free email alerts

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

For free online content visit:

http://journals.cambridge.org/oso



SUBSCRIPTIONS

Combinatorics, Probability and Computing (ISSN: 0963-5483) is published bimonthly in 2013 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 of Volume 22, 2013 is £443 net (USA, Canada and Mexico US\$761) post free, institutions print and electronic; institutions electronic only £383 / \$662; single parts cost £80 net (USA, Canada and Mexico US\$128) plus postage. Prices include delivery by air. Six parts form a volume. Orders 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. EU subscribers outside the UK who are not registered for VAT should add VAT at their county'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, Tokyo156, Japan. Copies of the Journal for subscribers in the USA, Canada and Mexico are sent by air to New York. Periodical postage paid at New York, N.Y. and additional mailing offices. POSTMASTER Send address changes to Combinatorics, Probability and Computing, Cambridge University Press, 100 Brook Hill Drive, West Nyack, N.Y. 10994-2133.

Claims for missing issues can only be considered if made immediately upon receipt of the subsequent issue. Copies of back numbers are available from Cambridge University Press.

COPYING This 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 C.C.C. may therefore copy material (beyond the limits permitted by section 107 and 108 of US copyright law) subject to payment to C.C.C. of the per-copy fee of \$16.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0963-5483/13 \$16.00. Organisations authorised by the Copyright Licensing Agency may also copy material subject to the usual conditions. ISI Tear Sheet 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 University Press.

Cover design by Gabriella Bollobás based on a tessellation by Andreas Dress.

INSTRUCTIONS FOR AUTHORS

Editorial policy The journal welcomes submissions in any of the areas of Combinatorics, Probability, or Computer Science, not just those dealing explicitly with relations between the three. Its scope covers combinatorics in a broad sense, including classical and algebraic graph theory, probabilistic methods, random structures, combinatorial probability and limit theorems for random combinatorial structures; and the theory of algorithms, including complexity theory, randomised algorithms, probabilistic analysis of algorithms, computational learning theory and optimisation.

Submission of manuscripts Authors are strongly encouraged to submit papers electronically, ideally in the form of a pdf or postscript file. Papers should be sent to the editorial office at cpc@msci.memphis.edu, or can alternatively be submitted through any member of the Editorial Board. Papers may also be submitted in hard copy: three copies should be sent accompanied by the author's address, telephone, fax number, and email address.

Submission of a paper is taken to imply that it has not been previously published and that it is not being considered for publication elsewhere. Authors of articles published in the journal assign copyright to Cambridge University Press and will receive a copyright assignment form for signature upon acceptance of their paper.

On final acceptance of a paper, authors will be asked to send LaTeX source code, along with figure files and author-defined macros, to the editorial office. The publisher reserves the right to typeset any article by conventional means if the author's LaTeX code presents problems in production.

Layout of manuscripts Papers should begin with an abstract of not more than 300 words. Papers should also include the relevant 2010 Mathematical Subject Classification codes. References should be listed in alphabetical order at the end of the main text.

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. The journal sends author proofs in pdf format, but requires a marked hard copy to be returned to the publisher unless corrections are very light. See instructions with the pdf proof.

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

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.

6

Combinatorics, Probability & Computing

CONTENTS

Distributions of Order Patterns of Interval Maps AARON ABRAMS, ERIC BABSON, HENRY LANDAU, ZEPH LANDAU AND JAMES POMMERSHEIM	319
Normal Numbers and the Normality Measure CHRISTOPH AISTLEITNER	342
Towards a Weighted Version of the Hajnal-Szemerédi Theorem JOZSEF BALOGH, GRAEME KEMKES, CHOONGBUM LEE AND STEPHEN J. YOUNG	346
Arithmetic Progressions in Sumsets and L^p -Almost-Periodicity ERNIE CROOT, IZABELLA LABA AND OLOF SISASK	351
On the Swap-Distances of Different Realizations of a Graphical Degree Sequence PÉTER L. ERDŐS, ZOLTÁN KIRÁLY AND ISTVÁN MIKLÓS	366
A New Bound for the 2/3 Conjecture DANIEL KRÁL, CHUN-HUNG LIU, JEAN-SÉBASTIEN SERENI, PETER WHALEN AND ZELEALEM B. YILMA	384
Optimal Packings of Hamilton Cycles in Graphs of High Minimum Degree DANIELA KÜHN, JOHN LAPINSKAS AND DERYK OSTHUS	394
Revolutionaries and Spies on Random Graphs DIETER MITSCHE AND PAWEL PRALAT	417
The Size of the Largest Part of Random Weighted Partitions of Large Integers LJUBEN MUTAFCHIEV	433
The Maximum Displacement for Linear Probing Hashing NICLAS PETERSSON	455

Cambridge Journals Online

For further information about this journal please go to the journal website at: journals.cambridge.org/cpc



MIX
Paper from
responsible sources
FSC® C018575

