

Cambridge

Theoretical Foundations of VLSI Design

Edited by K. McEVOY and J. V. TUCKER

The physical technologies of very large scale integration are having major effects on the electronics industry. This book discusses recent research in the theoretical foundations of several subjects of importance for the design of hardware, and for computer science in general.

£35.00 net HB 0 521 36631 3 448 pp. 1990
Cambridge Tracts in Theoretical Computer Science 10

Intersection and Decomposition Algorithms for Planar Arrangements

PANJAK K. AGARWAL

Based on the author's PhD thesis, this book presents a study of several algorithmic and combinatorial problems involving arrangements of arcs in the plane. It should be of interest to researchers in computational and combinatorial geometry.

£22.50 net HB 0 521 40446 0 304 pp. 1991

Updating Logical Databases

MARIANNE WINSLETT

This book tackles the problems of update algorithms for databases. The author has produced a formal method for specifying the desired change intensionally, using a 'formula-based' approach to updating needs rather than a 'model-based' technique.

£20.00 net HB 0 521 37371 9 224 pp. 1990
Cambridge Tracts in Theoretical Computer Science 9

Nonmonotonic Reasoning

From Theoretical Foundation to Efficient Computation

G. BREWKA

The author gives a broad overview of different areas of research in nonmonotonic reasoning, and presents some new results and ideas based on his research.

£19.50 net HB 0 521 38394 3 192 pp. 1991
Cambridge Tracts in Theoretical Computer Science 12

For further information please write to Susan Chadwick at the address below



Cambridge
University Press

The Edinburgh Building, Cambridge CB2 2RU, UK.

Introducing Combinatorics, Probability & Computing – *Call for papers*

Aims

This new journal welcomes submissions of a high standard in any of the areas of Combinatorics, Probability or Computer Science. An attractive feature, both to authors and to readers, will be the speed with which the new and important results appear in print.

Submissions

Authors should send three copies of their manuscript, in English, to the Editorial Office. Submissions in TeX or LaTeX by electronic mail are encouraged. Authors of published papers will receive 50 reprints free of charge and more may be ordered.

Scope

Combinatorics in a broad sense, including: classical and algebraic graph theory, extremal set theory, matroid theory, probabilistic methods and random combinatorial structures; combinatorial probability and limit theorems for random combinatorial structures; the theory of algorithms (including complexity theory), randomised algorithms, probabilistic analysis of algorithms, computational learning theory and optimisation.

Starting in March 1992, there will be four issues per year, each of about 100 pages.

Editorial Office

COMBINATORICS, PROBABILITY & COMPUTING
Department of Pure Mathematics and Mathematical Statistics, 16 Mill Lane, Cambridge CB2 1SB,
Email: cpc@pmms.cam.ac.uk

Editor-in-chief

BÉLA BOLLOBÁS, email:
B.Bollobas@pmms.cam.ac.uk

Managing Editors

GRAHAM BRIGHTWELL
Department of Statistical and Mathematical Sciences, London School of Economics, Houghton Street, London, WC2A 2AE,
Email: grb10@phx.cam.ac.uk

ANDREW THOMASON
(Address as Journal office) Email:
A.G.Thomason@pmms.cam.ac.uk



Cambridge University Press
The Edinburgh Building,
Cambridge CB2 2RU, England



MSCS

JULY 1991 VOLUME 1 NUMBER 2

CONTENTS

- | | |
|--|-----|
| Pre-adjunctions in order enriched categories C. E. MARTIN, C. A. R. HOARE AND HE JIFENG | 141 |
| *-Autonomous categories and linear logic MICHAEL BARR | 159 |
| Temporal Structures ROSS CASLEY, ROGER F. CREW, JOSÉ MESEGUER AND VAUGHAN PRATT | 179 |
| Constructive natural deduction and its ' ω -set' interpretation GIUSEPPE LONGO AND EUGENIO MOGGI | 215 |

© Cambridge University Press 1991
CAMBRIDGE UNIVERSITY PRESS
The Pitt Building, Trumpington Street, Cambridge CB2 1RP
40 West 20th Street, New York, NY 10011-4211, USA
10 Stamford Road, Oakleigh, Victoria 3166, Australia

Printed in Great Britain by the University Press, Cambridge

