SUBSCRIPTIONS

Combinatorics, Probability and Computing (ISSN: 0963-5483) is published bimonthly in 2012 in January/March (double issue), 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 21, 2012 is £410 net (USA, Canada and Mexico US\$705) post free, institutions print and electronic; institutions electronic only £365 / \$630; single parts cost £75 net (USA, Canada and Mexico US\$125) plus postage. Prices include delivery by air. Five 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, 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., PO. 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 0963-5483/12 \$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.



Combinatorics, Probability & Computing

CONTENTS

Asymptotic Improvements to the Lower Bound of Certain Bipartite	
Turán Numbers	323
SIMEON BALL AND VALENTINA PEPE	
Order-Invariant Measures on Fixed Causal Sets GRAHAM BRIGHTWELL AND MALWINA LUCZAK	330
Space Crossing Numbers BORIS BUKH AND ALFREDO HUBARD	358
Measurable Events Indexed by Trees PANDELIS DODOS, VASSILIS KANELLOPOULOS AND KONSTANTINOS TYROS	374
Limit Theorems for Subtree Size Profiles of Increasing Trees MICHAEL FUCHS	412
The Size of a Hypergraph and its Matching Number HAO HUANG, PO-SHEN LOH AND BENNY SUDAKOV	442
The Turán Number of F _{3,3} PETER KEEVASH AND DHRUV MUBAYI	451
Cliques in Graphs With Bounded Minimum Degree	457

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[®] C018127

