

Volume 18 Number 5 September 2009

Combinatorics, Probability & Computing

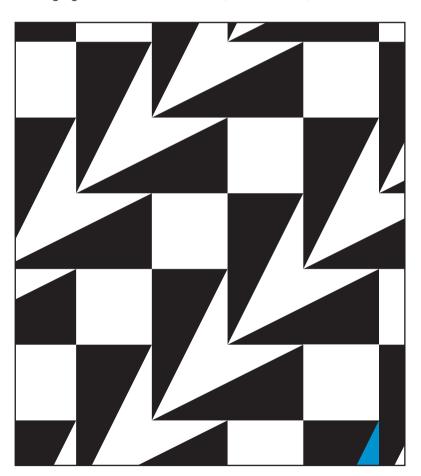
Editor-in-Chief: Béla Bollobás

Managing Editors: Paul Balister, Imre Leader, Oliver Riordan

SPECIAL ISSUE

New Directions in Algorithms, Combinatorics and Optimization

Papers dedicated to Tom Trotter on the occasion of his 65th birthday



Guest Editor:

Graham Brightwell

EDITOR-IN-CHIEF

BÉLA BOLLOBÁS: Trinity College, Cambridge CB2 1TQ and Department of Mathematical Sciences, University of Memphis, Memphis, TN 38152, USA, Email: B.Bollobas@dpmms.cam.ac.uk and Email: bollobas@msci.memphis.edu

PAUL BALISTER: Department of Mathematical Sciences, University of Memphis, Memphis, TN 38152, USA,

Email: pbalistr@memphis.edu

IMRE LEADER: Department of Pure Mathematics and Mathematical Statistics, Centre for Mathematical Sciences, Wilberforce Road, Cambridge CB3 0WB,

Email: i.leader@dpmms.cam.ac.uk

OLIVER RIORDAN: Mathematical Institute, 24-29 St Giles', Oxford, OX1 3LB,

Email: riordan@maths.ox.ac.uk

JOURNAL EMAIL ADDRESS: cpc@msci.memphis.edu

NOGA ALON: Department of Mathematics, Tel Aviv University, Ramat Aviv, 69978 Tel Aviv, Israel, Email: noga@math.tau.ac.il

Probabilistic methods in combinatorics

LÁSZLÓ BABAI: Department of Computer Science, University of Chicago, 1100 East 58th Street, Chicago, IL 60637, USA,

Email: laci@cs.uchicago.edu Algebraic methods, finite groups, algorithms

JEAN-CLAUDE BERMOND: 13S CNRS, Université de Nice - Sophia Antipolis, BP 145, F-06903 Sophia Antipolis Cedex, France,

Email: bermond@unice.fr Interconnection networks, graph theory and parallel computing

NORMAN BIGGS: Department of Mathematics, London School of Economics, Houghton Street, London WC2A 2AE, Email: n.l.biggs@lse.ac.uk Algebraic combinatorics, computational learning theory

GRAHAM BRIGHTWELL: Department of Mathematics, London School of Economics, Houghton Street, London WC2A 2AE,

Email: g.r.brightwell@lse.ac.uk

Probabilistic methods and partially ordered sets

JENNIFER T. CHAYES: Microsoft Research, One Microsoft Way, Redmond, Washington 98052, USA, Email: jchayes@microsoft.com

Percolation, statistical physics methods

ALAN FRIEZE: Department of Mathematics, Carnegie-Mellon University, Pittsburgh, PA 15213, Email: alan@random.math.cmu.edu

Random graphs, algorithms

ZOLTÁN FÜREDI: Department of Mathematics, University of Illinois at Urbana-Champaign, Urbana, IL 61801, USA, Email: zoltan@math.uiuc.edu Set systems, extremal graph theory

TIMOTHY GOWERS: Department of Pure Mathematics and Mathematical Statistics, Centre for Mathematical Sciences, Wilberforce Road, Cambridge CB3 0WB, Email: W.T.Gowers@dpmms.cam.ac.uk

Combinatorial number theory, probabilistic combinatorics

RON GRAHAM: Department of Computer Science and Engineering, University of California, San Diego, La Jolla, CA 92093-0114, USA,

Email: graham@ucsd.edu Discrete mathematics, combinatorial probability

MARK JERRUM: School of Mathematical Sciences, Queen Mary, University of London, Mile End Road, London E1 4NS, UK, Email: M.Jerrum@gmul.ac.uk

Randomised algorithms, complexity theory

JEFF KAHN: Department of Mathematics, Rutgers University, New Brunswick, NJ 08903, USA, Email: jkahn@math.rutgers.edu

Extra-combinatorial methods, hypergraphs YOSHIHARU KOHAYAKAWA: Instituto de Matemática e Estatística, University of São Paulo, Rua do Matão 1010, 05508-900 São Paulo, Brazil,

Email: yoshi@ime.usp.br

Random combinatorial structures, extremal problems

ALEXANDR KOSTOCHKA: Department of Mathematics, University of Illinois, 1409 W. Green Street, Urbana, IL 61801, USA,

Email: kostochk@math.uiuc.edu

Graphs, hypergraphs

GREG LAWLER: Department of Mathematics, University of Chicago, 5734 South University Avenue, Chicago, IL 60637, USA, Email:

lawler@math.uchicago.edu

Probability theory

TOMASZ ŁUCZAK: Institute of Mathematics, Adam Mickiewicz University, Matejki 48/49, PL-60 769 Poznán, Poland,

Email: tomasz@math.amu.edu.pl Probabilistic methods, random structures

COLIN McDIARMID: Department of Statistics, University of Oxford, 1 South Parks Road, Oxford OX1 3TG, Email: cmcd@stats.ox.ac.uk Combinatorics, probability and algorithms

BRENDAN McKAY: Computer Science Department, Australian National University, G.P.O. Box 4, Canberra, ACT 2601, Australia,

Email: bdm@cs.anu.edu.au Probability theory, enumeration, asymptotics

JAMES OXLEY: Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803-4918, USA, Email: oxley@math.lsu.edu

YUVAL PERES: Department of Statistics, 367 Evans Hall, University of California Berkeley, CA 94720-3860, USA, Email: peres@stat.berkeley.edu Probability on graphs, random walks

HANS JÜRGEN PRÖMEL: Institut für Informatik, Humboldt-Universität zu Berlin, Unter den Linden 6, D-10099 Berlin, Germany,

Email: proemel@informatik.hu-berlin.de Graph theory and algorithms, Ramsey theory

ALEXANDER RAZBOROV: Department of Computer Science, University of Chicago, 1100 East 58th Street, Chicago, IL 60637, USA, Email: razborov@cs.uchicago.edu

Boolean complexity theory

VOJTĚCH RÖDL: Department of Mathematics and Computer Science, Emory University, Atlanta, GA 30322-2390, USA,

Email: rodl@mathcs.emory.edu Ramsey theory, set systems, extremal problems

ALEX SCOTT: Mathematical Institute, University of Oxford, 24-29 St Giles, Oxford OX1 3LB, Email: scott@maths.ox.ac.uk

VERA SÓS: Mathematical Research Institute, Reáltanoda utca 13-15, P.O. Box 127, H-1364 Budapest, Hungary, Email: sos@math-inst.hu Graph theory, combinatorics, number theory WOJCIECH SZPANKOWSKI: Purdue University, Department of Computer Sciences, 250 N. University Street, West Lafayette, IN 47907-2066, USA,

Email: spa@cs.purdue.edu Analytic algorithmics and combinatorics

ANDREW THOMASON: Department of Pure Mathematics and Mathematical Statistics, Centre for Mathematical Sciences, Wilberforce Road, Cambridge CB3 0WB, Email: A.G.Thomason@dpmms.cam.ac.uk

Extremal graph theory, Ramsey theory

DOMINIC WELSH: Mathematical Institute, University of Oxford, 24-29 St Giles, Oxford, OX1 3LB, Email: dwelsh@maths.ox.ac.uk

Complexity, algorithms, matroid theory

PETER WINKLER: Department of Mathematics, Dartmouth College, Hanover, NH 03755-3551, USA,

Email: peter.winkler@dartmouth.edu Algorithms, random structures

This journal is included in the Cambridge Journals Online service which can be found at journals.cambridge.org.

© CAMBRIDGE UNIVERSITY PRESS 2009

Special Issue in honour of Tom Trotter on his 65th birthday

Papers from
New Directions in Algorithms,
Combinatorics and Optimization
5–9 May 2008
Georgia Institute of Technology