British Combinatorial Bulletin 2016
This is the 2016 British Combinatorial Bulletin. The format is essentially as in previous years. The Newsletter (produced twice a year, in April and October) gives some rather more informal information. I am again this year trying to provide links to papers etc. where I am aware of them, which I hope will help users.

Can I again thank all institutional representatives for their enormous help in preparing this Bulletin. The BCB is very much what you make of it, and thus your suggestions (or those of your colleagues) for improvements remain very welcome. If anyone is interested in becoming a representative for an institution which doesn’t currently have one, please let me know – the object of the exercise is to spread information, and so the more representatives we can have the better.

Recall that the Bulletin website has now formally moved to http://privatewww.essex.ac.uk/~dbpenman/BCB/index.htm There is forwarding from the old site to the new one which seems to be working well: please advise the editor of any issues.

As many of you probably know already, the BCC has a new Wordpress Website https://britishcombinatorial.wordpress.com/ and the Bulletin will be moving there when the Editor has some leisure time (laughs hollowly and insanely). The old site will be (lightly) maintained for a while thereafter to ease the transition. Possible changes to the format of the bulletin were discussed at the last BCC Business Meeting and the upshot is that there are no plans to change the format of the Bulletin at present. The situation will be kept under review.

I apologise for the slightly late going to press this year: this is due to a variety of small issues. The cut-off date for inclusion is still 1st May so comparability with previous and subsequent years should have been maintained.

You are again reminded that the Bulletin Editor also maintains a mailing list for the announcement of meetings, research-student and above level courses, job adverts and other occasional items (e.g. inaugural lectures) in the UK. Any person who wishes to join or leave this list may do so at any time by emailing the Editor (email as below). Use of the list is subject to the listholder being satisfied as to an applicant’s bona fides and to adherence to the Responsible Usage Policy.

David Penman
Editor
8 May 2016.

The BCB webpage is: http://privatewww.essex.ac.uk/~dbpenman/BCB/index.htm

Email should be addressed to: dbpenman@essex.ac.uk

The British Combinatorial Committee is a charity registered in Scotland, No: SC019723.
Committee Membership.

The Committee currently consists of: Peter Cameron (Chairman), James Hirschfeld (Secretary), Keith Edwards (Treasurer), Vadim Lozin (BCC25 Local Organiser), David Penman (Bulletin editor), Bridget Webb (Archivist), Jan van den Heuvel and Sophie Huczynska

Support for Conferences

Please contact the British Combinatorial Committee if you are thinking of organizing a meeting on combinatorial topics in the UK: in most cases, the Committee can offer financial support. Institutions requesting support are normally expected to make a contribution from their own funds or elsewhere. Proposals for consideration by the Committee, including outline plans and an outline budget, should be sent by email to the Secretary, James Hirschfeld (jwph@sussex.ac.uk)

Archive

Bridget Webb now holds the archive at the Open University. If you have any items for inclusion or would like to see any items please contact her: B.S.Webb@open.ac.uk

News of forthcoming meetings.

As noted in the Introduction, we have moved the news of forthcoming meetings to the Newsletter so as to avoid overlap. Remember that (all) British Combinatorial Newsletters are available at http://www.essex.ac.uk/maths/BCB/newsletters.htm and the most recent one, produced at (essentially) the same time as this Bulletin, is number 18. The Newsletter also includes details of e.g. visitors, recent Ph.D theses and some other items.

Accounts

Please note that the statement about accounts on the next page has still to be approved by the Committee at its meeting in mid-May 2015.
BRITISH COMBINATORIAL COMMITTEE

Receipts and Payments Account for the period
1 October 2014 to 30 September 2015

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<th>Year to 30/9/2015 £</th>
<th>Year to 30/9/2014 £</th>
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<td><strong>Total receipts</strong></td>
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<td>Grants for one-day conferences (6 events in 2014/15)</td>
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<td>Grant for London 2-day conference (QMUL/LSE), May 2014</td>
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<td><strong>Total payments</strong></td>
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<td>Surplus / (deficit) for year</td>
<td>(4984.21)</td>
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All funds are unrestricted

**Statement of Balances as at 30 September**

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The British Combinatorial Committee is a charity registered in Scotland, No: SCO19723
The financial statement for the period 1 October 2014 to 30 September 2015 was approved by the Trustees on (date):

and is signed on their behalf by:

Dr K J Edwards (Treasurer)
### LIST A.

**Combinatorial Mathematicians based in Britain.**

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List B.

Combinatorial staff, research students, lecture courses and seminars at departments in Britain.

An asterisk denotes a contact name from whom further information can be obtained. Under some entries the combinatorial journals currently being taken are listed; a key to the titles is as follows:

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Lecture Courses: There are a number of general discrete mathematics courses.


ABERYSTWYTH UNIVERSITY
Institute of Mathematics & Physics Aberystwyth University, Aberystwyth, SY23 3BZ. Tel: 01970 622802 Fax: 01970 6227777
http://www.aber.ac.uk/maps/en/
Prof J. D. Key (Honorary Professor: combinatorics, codes)
Prof V.C. Mavron* (Emeritus: designs, codes)
Dr T. P. McDonough (retired, Honorary Lecturer: designs, permutation groups, codes)
Prof A.O. Morris (Emeritus: representation theory and algebraic combinatorics)

Lecture courses None currently.

Current periodicals: P, U, h

BANGOR UNIVERSITY
School of Computer Science University of Bangor, Dean Street, Bangor, Gwynedd LL57 1UT. Tel: 01248 382686 Fax: 01248 361429
http://www.maths.bangor.ac.uk
Dr C. D. Wensley* (retired, Honorary Research Fellow: computational discrete algebra)

UNIVERSITY OF BATH
Department of Mathematical Sciences University of Bath, Bath, BA2 7AY Tel: 01225 386989 Fax: 01225 386492
http://www.bath.ac.uk/math-sci
Dr. Ceclie Mailler (probability)
Prof Peter Mörters (Probability, including random walks and random networks)
Prof Mathew Penrose (probability theory, geometric random graphs)
Dr Alexandre Stauffer* (probability including random walks, random graphs, percolation and Markov chain mixing times)

Research students
Christopher Daniels (percolation, Prof Penrose)
Forthcoming visitors to Bath in probability (often interacting with combinatorics) are listed at http://www.bath.ac.uk/research/centres/probability-laboratory/seminars/ (scroll down the page).

**Seminar** Probability Seminar (Monday, 12.15):
http://www.bath.ac.uk/research/centres/probability-laboratory/seminars/

**Current Periodicals:** A, B, D, E, F, H, J, L, M, N, P, Q, R, S, T, U, V, X, Y, Z, a, b, c, d, e, f, g, h. Most of these are electronic access only (sometimes only after a fixed date) but E and F are paper access.

**BIRKBECK COLLEGE**
*School of Economics, Mathematics and Statistics* Birkbeck College, Malet Street, London WC1E 7HX. Tel: 0207 631 6428 Fax: 0207 631 6416
http://www.ems.bbk.ac.uk/
Dr A. Bowler* (symmetric designs, combinatorial matrices, permutation groups)
Dr B. Fairbairn (combinatorial algebra).
Dr S. Hart (permutation groups, sum-free sets)
Dr M. B. Paterson (frameproof codes, key distribution schemes, multivariate equation solving techniques).
Dr Amarpreet Rattan (factorizations of permutations, combinatorial representation theory, lattice path combinatorics).

*School of Computer Science and Information Systems* Birkbeck College, Malet Street, London WC1E 7HX. Tel: 0207 631 6700 Fax: 0207 631 6727
http://www.dcs.bbk.ac.uk/
Prof T. I. Fenner (combinatorial algorithms, probabilistic algorithms, random graphs)
Prof G. Loizou (combinatorial algorithms)
Dr Oded Lachish (combinatorial algorithms).

**UNIVERSITY OF BIRMINGHAM**
*School of Mathematics* University of Birmingham, Edgbaston, Birmingham B15 2TT.
Tel: 0121 414 6587 Fax: 0121 414 3389
http://www.mat.bham.ac.uk
http://web.mat.bham.ac.uk/D.Osthus/bham.html (for combinatorics group).

Dr Nikolaos Fountoulakis (Random Graphs, Randomized Algorithms)
Prof Daniela Kühn (Extremal Combinatorics, Probabilistic Methods)
Dr Allan Lo (Extremal Combinatorics)
Dr Richard Mycroft (Extremal Combinatorics)
Prof Deryk Osthus* (Extremal Combinatorics, Probabilistic Methods)
Dr Will Perkins (Combinatorics, Probability, Algorithms)
Dr Andrew Treglown (Extremal Combinatorics)

*Research Fellows*
Dr. Felix Joos (Combinatorics)
Dr Jaehoon Kim (Combinatorics)
Dr. Andrew McDowell (Combinatorics)
Dr. Guillem Pernarua (Combinatorics)

Research Students
Frederik Garbe (Dr Mycroft)
Stefan Glock (Prof Osthus)
Robert Hancock (Dr Treglown)
Tassio Naia Dos Santos (Dr Mycroft)
Nicolas Sanhueza
Wei En Tan (Dr Hefetz)
Amelia Taylor (Prof Kühn)
Tim Townsend (Prof Kühn)

Lecture courses
Discrete Mathematics (22 lectures, 1st year)
Combinatorial Optimisation (22 lectures, 3rd year)
Combinatorics (22 lectures, 3rd and 4th year)
Communication Theory (22 lectures, 3rd and 4th year)
Computability (22 lectures, 3rd and 4th years)
Advanced Topics in Combinatorics (22, 4th year)
Graph Theory (44, 3rd and 4th year)

Seminar Combinatorics Research Seminar (usually Thursdays 2 p.m)
http://web.mat.bham.ac.uk/combinatorics/

UNIVERSITY OF BRISTOL

Department of Mathematics University of Bristol, University Walk, Bristol, BS8 1TW, Tel: 0117 928 7978, Fax: 0117 928 7999.
http://www.maths.bris.ac.uk
Prof Carl Dettmann (random geometric graphs, wireless networks, dynamical systems, statistical physics)
Dr Oliver Johnson (group testing, entropy, log-concavity)
Dr Misha Rudnev (harmonic analysis, geometric combinatorics, hard Erdős problems)
Dr Julia Wolf (additive Combinatorics)
Prof Trevor Wooley (number theory)

Research Fellows
Dr. Ben Barber (extremal combinatorics)
Dr Thomas Bloom (arithmetic combinatorics)
Dr Andrew Brooke-Taylor (homogeneous structures)
Dr Edward Crane (Geometric function theory, circle packings, holomorphic dynamics, discrete probability, two-dimensional statistical mechanics)
Dr Neil Gillespie (error-correcting codes, permutation groups, codes in graphs)
Dr Justin McInroy (finite geometry)
Dr Jason Semeraro (groups, representations, combinatorics)
Department of Computer Science  Merchant Venturers Building, Woodland Road, Bristol, BS8 1UB, Tel. 0117 954 5264, Fax 0117 954 5208  
http://www.cs.bris.ac.uk/  
Dr Raphael Clifford (algorithms)  
Dr Ashley Montanaro (quantum computation, including combinatorial aspects)  
Dr Benjamin Sach (algorithms)  
Dr He Sun (spectral graph theory, randomised algorithms)  

Research Fellows  
Dr Allyx Fontaine (algorithms)  

Research Students  
Pierre-Yves Bienvenu  
Daniel El-Baz  
Luka Rimanic  
Sophie Stevens  

Lecture Courses  
Combinatorics (36 lectures, 2nd year)  
Optimisation 2 (36 lectures, 2nd year)  
Information Theory (18 lectures, 3rd year)  
Experimental Design (18 lectures, 3rd year)  
Quantum Information Theory (16 lectures, 4th year)  
Complex Networks (36 lectures, 3rd and 4th year)  
Topics in Discrete Mathematics (15 lectures, 3rd and 4th year)  

Seminar  Combinatorics Seminar on Thursdays at 4.15 p.m: see  
http://www.bristol.ac.uk/maths/events/combinatorics/  

Current Periodicals:  
A, B, E, F, H, I, J, L, M, N, P, Q, R, S, T, U, V, X, Y, Z, a, b, c, d, e, f, g, h (online). E, h (paper):, plus some old paper copies of A, B, F, H, J, L, M, N, R, T, X, Y, b, d, i.  

BT MOBILITY RESEARCH CENTRE, ADASTRAL PARK, MARTLESHAM.  
http://keithbriggs.info/  
Dr Keith Briggs (graph theory and stochastic processes for network applications).  

BRUNEL UNIVERSITY  
Department of Mathematical Sciences Brunel University, Kingston Lane, Uxbridge, Middlesex UB8 3PH. Tel: 01895 265745 Fax: 01895 265732  
http://www.brunel.ac.uk/about/acad/siscm/maths  
Dr Carolyn Chun (matroids)  
Dr Rhiannon Hall (matroids, graphs)
Dr Ilia Krasikov (graph theory, combinatorics, coding theory, number theory, orthogonal polynomials)
Dr Steven Noble* (combinatorics, graph theory)

Research Students
Chris Knapp (Dr Noble).

Lecture courses
Encryption and Data Compression (48 lectures, 3rd year, Dr Krasikov)
Elements of Combinatorics (24 lectures, 2nd year, Dr Krasikov)
Fundamentals (24 lectures, 1st year, Dr Winter)
Probability (36 lectures, 1st year, Dr Tajik)

Institutional Research Repository (containing preprints etc.): http://bura.brunel.ac.uk/

Current Periodicals: A, B, E, F, H, I, J, L, M, N, O, P, Q, R, S, T, U, V, X, Y, a, b, c, d, e, f, g

UNIVERSITY OF CAMBRIDGE
Department of Pure Mathematics and Mathematical Statistics Centre for
Mathematical Sciences, Wilberforce Rd, Cambridge CB3 0WB. Tel: 01223 337999
Fax: 01223 337920
http://www.dpmms.cam.ac.uk/
Prof W. T. Gowers (Trinity) (analysis, combinatorics)
Prof G. R. Grimmett (Churchill) (probability theory, combinatorial theory)
Prof F. P. Kelly (Christ’s) (random processes, networks, optimization)
Prof I. B. Leader* (Trinity) (extremal combinatorics, Ramsey theory)
Prof J. Saxl (Caius) (group theory)
Prof A. G. Thomason (Clare) (combinatorics, graph theory, algorithms)
Prof R. R. Weber (Queen’s) (mathematical operational research, stochastic networks)

Fellows
Dr Michael Bateman (additive combinatorics)
Prof Béla. Bollobás (Trinity) (combinatorics, graph theory)
Dr. Johannes Carmesin (infinite graph theory)
Dr Thomas E. Forster (Clare Hall) (logic, set theory, combinatorics)
Dr Paul Russell (Churchill) (Ramsey theory)
Dr Paul Smith (Murray Edwards) (probabilistic combinatorics)
Dr Matthew Tointon (additive combinatorics)
Dr Lutz Warnke (random graphs, probabilistic methods)

Research students
Antonio Girao (Prof. Thomason)
Vytautas Gruslys (Prof Leader)
Omid. Hatami (Prof Gowers)
Nathan Kettle (Prof Bollobás)
Sebastian Koch (Prof Bollobás)
Jonathan Lee (Prof Bollobás)
Shoham Letzler (Prof Bollobás)
Sarah Lilienthal (Prof Kelly)
Ares. Meroueh (Prof Thomason).
B. P. Narayanan (Prof Bollobás)
Ivan Tomon (Prof Bollobás)

Lecture courses
Numbers and Sets (24 lectures, 1st year, Prof Leader)
Graph Theory (24 lectures, 3rd year, Prof Thomason)
Coding and Cryptography (24 lectures, 3rd year, Dr Keith Carne)
Ramsey Theory (24 lectures, Part III, Prof Leader)
Concentration in discrete random processes (16 lectures, Part III, Dr Warnke)
Extremal and Probabilistic Problems in Combinatorics (16 lectures, Part III, Prof Bollobás)
Algebraic Methods in Incidence Theory (Dr Bateman)
Percolation and related topics (16 lectures, Part 3, Prof Grimmett and Dr Kiss)
Additive Combinatorics and Equidistribution (16 lectures, graduate, Dr Peter Varju).

Seminars
Combinatorics (Thursdays at 2.30 p.m.)
Discrete Analysis (Wednesdays at 4.00 p.m.)
**Department of Mathematics**  Tait Building, Northampton Square, London EC1V 0HB.
Tel 020 7040 6051. Fax 020 7040 8566
http://www.city.ac.uk/department-mathematics
Dr A. Cox (representation theory)
Prof J. Chuang (representation theory of finite groups)
Dr M. De Visschar (representation theory)
Prof R. Kessar (representation theory of finite groups)
Prof M. Lindelmann (representation theory of finite groups)

Research fellows:
Dr C. Bowman (representation theory)

**UNIVERSITY OF DERBY**
**School of Computing and Mathematics**  Faculty of Business, Computing and Law, University of Derby, Kedleston Road, Derby DE22 1GB. Tel: 01332 591896
Fax: +44 (0)1332 597741.
http://www.derby.ac.uk/computing
Dr Ovidiu D. Bagdasar (Discrete Mathematics, Optimization, Mathematical Modelling, Geometry, Complex Analysis)
Dr Anna Huber (Combinatorics)
Dr Nicholas Korpelainen (combinatorics)
Prof Peter J. Larcombe* (hypergeometric function theory, generating functions, binomial coefficient sums)
Dr Nicholas Korpelainen (structural and algorithmic graph theory, permutation patterns)

*Research students: None*

*Lecture courses: Graph Theory and its Applications (3rd year)*

*Current periodicals: None*

**UNIVERSITY OF DUNDEE**
**School of Computing**  University of Dundee, Dundee DD1 4HN. Tel: 01382 384151
Fax: 01382 385509
http://www.computing.dundee.ac.uk
Dr K. J. Edwards* (Graph colourings, graph decompositions, complexity)

**Division of Mathematics**  University of Dundee, Dundee DD1 4HN. Tel. 01382 384471 Fax 01382 385516
http://www.maths.dundee.ac.uk
Dr Arthur D. Sands (retired: Combinatorial problems on finite Abelian groups)

*Lecture Courses:*
Theory of Computation (Level 3)
Logic and Information Theory (M.Sc.)
Current Periodicals: T, V, b, d

DURHAM UNIVERSITY

Department of Computer Science Science Laboratories, South Road, Durham DH1 3LE Tel: 0191 33 41700 Fax: 0191 33 41701
http://community.dur.ac.uk/algorithms.complexity/
Dr. M. Bordewich (computational complexity; randomised algorithms; phylogenetics)
Dr. S. Dantchev (proof complexity)
Dr. T. Friedetzky (randomised algorithms; probabilistic analysis; sub-linear time algorithms; communication networks)
Dr. M. Gadouleau (coding, network coding, information theory and their links to combinatorics and matroid theory)
Dr. M. Johnson* (graph theory, combinatorial optimization, combinatorial designs)
Prof. A. Krokhin (algebra; logic; discrete mathematics; constraint satisfaction; computational complexity; temporal reasoning)
Dr. G. Mertzios (Algorithms, Complexity, Networks, Combinatorial Optimization, Algorithmic Game Theory)
Dr. D. Paulusma (graph theory; algorithms; combinatorial optimization; cooperative game theory)
Prof. I. A. Stewart (computational complexity; finite model theory; descriptive complexity; graph theory; interconnection networks; group theory)

Department of Mathematical Sciences Department of Mathematical Sciences, Durham University, Science Laboratories, South Rd, Durham DH1 3LE. Tel: 0191-334-3050
Fax: 0191-334-3051

Dr. Norbert Peyerimhoff (global analysis, graph theory, Riemannian geometry)

Research Staff (mostly in Computer Science)

Konrad Dąbrowski (graph algorithms, parameterized complexity)
Alejandro Erickson (combinatorial algorithms, interconnection networks, mathematical art, tilings and coverings)
Dr. Nicholas Georgiou (in Mathematical Sciences: Probabilistic combinatorics and partial orders; modular decomposition and its connection to the Reconstruction Conjecture)

Research Students
Laurence Dawson (Prof Stewart)
Carl Feghali (graph algorithms, graph colouring, Dr Johnson)
David Kirk (Dr Dantchev)
Foad Lotfifar (Dr Johnson)
Sepehr Meshkinfamfard (Dr Friedetzky)
Anthony Stewart (graph algorithms, Dr Paulusma)
Adam Symonds (Dr Dantchev)
Lecture Courses:
Algorithms and Data Structures (1st year, 40 lectures, Dr Friedetzky and Dr Johnson)
Logic and Discrete Mathematics (1st year, 40 lectures, Prof Krokhin and Dr Paulusma)
Algorithms and Complexity (2nd year, 20 lectures, Dr Gadouleau and Dr Mertzios)
Advanced Algorithms (3rd year, 10 lectures, Dr Johnson)
Advanced Computational Complexity (3rd year, 10 lectures, Prof Krokhin)
Algorithmic Game Theory (3rd year, 10 lectures, Dr Dantchev)
Information Theory (3rd year, 10 lectures, Dr Gadouleau)

Seminars
The Algorithms and Complexity Group have a weekly seminar, current webpage.
http://community.dur.ac.uk/algorithms.complexity/seminars.html

(electronic only except H, I, H which are hardcopies).

UNIVERSITY OF EAST ANGLIA, NORWICH
School of Mathematics
University of East Anglia, Norwich NR4 7TJ. Tel: 01603 456161 Fax: 01603 259515
http://www.uea.ac.uk/mth
Prof A.R. Camina (block designs, finite groups)
Prof M. Džamonja (logic, set theory, infinite combinatorics)
Dr Robert D. Gray (algebra and combinatorics)
Dr S. Lyle (representation theory).
Dr I. J. Siemons* (permutation groups, topological and homological methods)
Prof A.E. Zalesskii (group theory, ring theory)

School of Computing Sciences
University of East Anglia, Norwich, NR4 7TJ, United Kingdom. Tel. +44 (0) 1603 592607. Fax. +44 (0) 1603 593345
http://www.uea.ac.uk/cmp/
Dr Katharina Huber (finite metric spaces, phylogenetics, discrete algorithms, applications of combinatorial approaches to computational biology)
Prof Vincent Moulton (finite metric spaces, phylogenetics, discrete algorithms, graph theory, applications of combinatorial approaches to computational biology)

Research students
Mr. Badr Allhadri (Dr Lyle)
Miss S. Bastkowsk (phylogenetics, Prof Moulton)
Mr. S. Greatrix (phylogenetics, Prof Moulton)
Mr. R. Suchecki (phylogenetics, Dr Huber)
Lecture courses (check availability):
Discrete Mathematics (2\textsuperscript{nd} year)
Set theory (3\textsuperscript{rd} year)
Infinite permutation groups (4\textsuperscript{th} year, p/g)
Representation Theory (3\textsuperscript{rd} year)
Graph theory (3\textsuperscript{rd} year)
Group theory (3\textsuperscript{rd} year)
Computability (3\textsuperscript{rd} year)
Model theory (3\textsuperscript{rd} year)

UNIVERSITY OF EDINBURGH
School of Informatics 2 Buccleuch Place, Edinburgh EH8 9LW Tel. 0131 650 2691
Fax: 0131 650 6626
http://www.inf.ed.ac.uk
Dr Mary Cryan* (algorithms and complexity)

Research students

Lecture Courses
Algorithms and Data Structures (3\textsuperscript{rd} year)
Computability and Intractability (3\textsuperscript{rd} year, MSc)
Computational Complexity (4\textsuperscript{th} year)

Current Periodicals: E, H, M, T, X, Y

UNIVERSITY OF ESSEX
Department of Mathematical Sciences University of Essex, Wivenhoe Park,
Colchester CO4 3SQ. Tel: 01206 873040 Fax: 01206 873043
http://www.essex.ac.uk/maths
Dr David Branson (retired: applied probability, combinatorics of Stirling numbers)
Prof Peter M. Higgins (combinatorics of algebraic semigroup theory, cryptography)
Dr David Penman* (random and pseudo-random graphs)
Dr Chris Saker (part-time: combinatorics on words, semigroup theory, cryptography)
Dr Abdellah Salhi (combinatorial optimisation)
Dr Alexei Vernitski (algebra, combinatorics, computer security)
Dr Gerald Williams (computational group theory)

Research students
Andria Eleftheriou (reliability of graphs: Dr Penman: part-time)
Baha Tamimi (critical groups of graphs, Dr Penman and Dr Williams)

Lecture Courses
Graph Theory (3\textsuperscript{rd} year, Dr Penman) (30 lectures)
Codes and Cryptography (Dr Williams, 3\textsuperscript{rd} year) (30 lectures)
Combinatorial optimisation (Dr Salhi, 3\textsuperscript{rd} year) (30 lectures)

Current periodicals: H, P, h.
Dr R. J. Chapman* (finite fields, coding theory, enumerative combinatorics)  
Prof P. Vámos (retired: representation of matroids)

Lecture courses  
Discrete Mathematics and Probability (1st year)  
Coding theory (3rd year)  
Combinatorics (3rd year)  
Graphs, Networks and Algorithms (3rd year)

Current periodicals: C, D, W

(For “Glamorgan”, see now “University of South Wales”).

UNIVERSITY OF GLASGOW  
School of Mathematics and Statistics University of Glasgow, University Gardens, Glasgow G12 8QW. Tel: 0141 330 5176 Fax: 0141 330 4111  
www.gla.ac.uk/schools/mathematicsstatistics  
Dr I. Anderson (Honorary research fellow: designs, whist tournaments)  
Dr K. Meeks (Lecturer) – graph theory, algorithms, parameterised complexity, networks.

School of Computing Science Sir Alwyn Williams Building, Lilybank Gardens, Glasgow G12 8QQ Tel: 0141 330 4256 Fax: 0141 330 4913  
http://www.gla.ac.uk/schools/computing/  
Dr R.W. Irving (combinatorial and graph algorithms) (Honorary Research Fellow)  
Dr D.F. Manlove* (combinatorial and graph algorithms)  
Dr A. Miller (combinatorial and graph algorithms)  
Dr P. Prosser (combinatorial and graph algorithms)

Research staff  
Dr Baharak Rastegari (combinatorial and graph algorithms)

Research students  
Frances Cooper (combinatorial and graph algorithms, Dr Manlove)  
Ciaran McCreesh (combinatorial and graph algorithms, Dr Prosser)  
Craig Reilly (Parallel graph search with isomorphsim elimination, Dr Miller)
Lecture courses
Algorithmic Foundations 2 (Computer Science, 2nd year, 22 lectures, Dr Norman)
Algorithmics I (H) (Computer Science, 3rd year, 20 lectures, Dr Norman)
Algorithmics II (H) (Computer Science, 4th year, 20 lectures, Dr Manlove)
Constraint Programming M (4th year, 20 lectures, Dr Prosser)

Graphs and Networks (Maths, 21 lectures, 2nd year, Dr Meeks)
Topics in Discrete Mathematics (Maths, 21 lectures, 2nd year)

Seminars: Formal Analysis, Theory and Algorithms (Tuesday, 1 pm, during semester time). (Dr Baharak Rastegari)
http://www.gla.ac.uk/schools/computing/research/researchgroups/formalanalysistheoryandalgorithms.

Current periodicals: C, O, i (paper only)
M, N, Q, R, V, X, Y, b, c, h (paper and electronic)
A, B, F, H, I, L, P, S, T, U, Z, a, d, e, f, g (electronic only).

GOLDSMITHS COLLEGE
Department of Computing
Goldsmiths College, University of London, New Cross,
London SE14 6NW. Tel: 0207 919 7850 Fax: 0207 919 7853
http://www.goldsmiths.ac.uk/computing/
Dr I. Pu* (combinatorial algorithms, randomized, parallel, probabilistic and average case algorithmics)

Lecture courses
Discrete Mathematics (1st year)
Data Structures and algorithms (2nd year, Dr Pu)
Graph Theory (3rd year)

Current Periodicals: X, Y, b

GOVERNMENT COMMUNICATIONS HEADQUARTERS
Hubble Road, Cheltenham, GL51 0EX. Tel: 01242 221491 Fax: 01242 226816
http://www.gchq.gov.uk/
Dr R.G.E. Pinch*

UNIVERSITY OF GREENWICH
School of Computing and Mathematical Sciences University of Greenwich, London,
SE18 6PF Tel: 0208 316 8000 Fax: 0208 855 4033
http://www.gre.ac.uk/schools/cms
Prof V.A. Strusevich (combinatorial optimization, scheduling theory)
Current Periodicals: T
HERIOT-WATT UNIVERSITY

Department of Mathematics Heriot-Watt University, Riccarton, Edinburgh EH14 4AS. Tel: 0131 451 3221 Fax: 0131 451 3249
http://www.ma.hw.ac.uk/maths.html
Dr M.V. Lawson (semigroup theory, combinatorics on words)
Dr A. R. Prince* (finite geometries, finite group theory)

Department of Actuarial Mathematics and Statistics Heriot-Watt University, Riccarton, Edinburgh EH14 4AS. Tel: 0131 451 3202 Fax: 0131 451 3249
http://www.ma.hw.ac.uk/ams
Dr Jennie Hansen (probabilistic combinatorics)

Lecture course Discrete mathematics (45 lectures, 3rd year honours degree, Dr Prince)

Current periodicals: E, F, I, c, g, h

UNIVERSITY OF HERTFORDSHIRE

School of Physics, Astronomy and Mathematics. University of Hertforshire, College Lane, Hatfield, Hertfordshire, AL10 9AB
Tel. +44 (0)1707 284394
http://www.herts.ac.uk/apply/schools-of-study/physics-astronomy-and-mathematics
Dr Catarinha Carvalho (algebra, combinatorics, theoretical computer science)
Dr Yann Peresse (algebra, combinatorics)

ROYAL GRAMMAR SCHOOL, HIGH WYCOMBE.
Dr Richard I Shreeve (retired) (combinatorics in general, specifically enumeration of 3-topes and n-topes).

Lectures: Occasional lectures to Oxbridge applicants.

UNIVERSITY OF HULL

Centre for Mathematics University of Hull, Cottingham Road, Hull HU6 7RX. Tel: 01482 465885 Fax: 01482 466218
http://www.hull.ac.uk/maths/
Prof R. Shaw* (Emeritus, finite geometry)

Department of Computer Science University of Hull, Hull HU6 7RX Tel: 01482 465951/465067 Fax: 01482 466666
http://www.dcs.hull.ac.uk
Dr N.A. Gordon (465038) (finite geometry, computer algebra)

Research report series http://www.hull.ac.uk/php/masrs/
Current periodicals: T. Electronic access to H, J, P, Q, R, S, U, V, X, Y, a, b, d

**IMPERIAL COLLEGE LONDON**

*Department of Mathematics* Imperial College London, London SW7 2AZ. Tel: 0207 594 8517 Fax: 0207 594 8483
http://www.ma.ic.ac.uk

Dr John Britnell (group theory, algebraic combinatorics)
Prof D. M. Evans (permutation groups, automorphism groups of infinite structures)
Prof A. Ivanov (distance-transitive graphs)
Prof M. W. Liebeck (group theory, algebraic combinatorics)
Dr O. Pretzel (combinatorics)
Dr Alexander Kasprzyk (algebraic geometry, combinatorics of convex lattice polytopes).

*Department of Electrical Engineering*

Dr Moez Draief (applied probability including random graphs).
Dr Mohammed Abdullah (probability, random graphs)

**KEELE UNIVERSITY**

*School of Computing and Mathematics* Keele University, Keele, Staffordshire ST5 5BG. Tel: 01782 733258 Fax: 01782 734268
http://www.keele.ac.uk/scm/

Dr D. Bedford* (latin squares; designs)
Dr J. Preater (applied probability, random graphs)
Dr. P. Truman (Algebraic number theory and combinatorics)

*Lecture courses*

Advanced Combinatorics (40 lectures, 4th year, Dr Bedford)
Codes and Cryptography (30 lectures, 3rd year, Dr Truman)

**UNIVERSITY OF KENT**

*School of Mathematics, Statistics and Actuarial Science* Cornwallis Building, University of Kent, Canterbury, Kent CT2 7NF. Tel: 01227 827181 Fax: 01227 827932
http://www.kent.ac.uk/smsas/

Prof P. Fleischmann (algebraic combinatorics, root systems, Mobius function)
Dr S. Launois (q-calculus)
Dr B. Lemmens (dynamical systems, combinatorial aspects)
Dr A. F. Loureiro (orthogonal polynomials)
Dr R. E. Paget* (representation theory of symmetric groups, cellular algebras)
Dr R. J. Shank (modular invariant theory)
Dr C. F. Woodcock (orthogonal Latin squares)
Dr M. Towers (representation theory of quantum algebras)
Research students
Melanie De Boeck (Dr Paget)
Cesar Lecoultre (Dr Launois)
Andrew Kitchin (Dr Launois)

Lecture courses
Discrete mathematics (36 lectures, 3rd year, Dr Woodcock)
Symmetries, Groups and Invariants (M.Sc., Prof Fleischmann)
Diagram algebras in mathematics and physics (M.Sc., Dr Paget, Dr Dunning)

Current periodicals: electronic access to A, B, E, F, H, J, L, M, N, O, P, Q, R, S, U, V, X, Y, Z, a, b, c, d, e, f, g.

KING'S COLLEGE LONDON
Department of Computer Science King's College, Strand, London, WC2R 2LS Tel 020 7848 2588 Fax: 020 7848 2851
http://www.dcs.kcl.ac.uk
Dr Colin Cooper* (random graphs, random algorithms)
Dr Tomasz Radzik (algorithms, combinatorial algorithms etc.).

Visiting professor Prof Mike Walker.

KINGSTON UNIVERSITY
Faculty of Science, Engineering and Computing Kingston University, Penrhyn Road, Kingston-upon-Thames, KT1 2EE
http://sec.kingston.ac.uk/

School of Mathematics
Dr Gordon J. A. Hunter* (Applications of graph theory to Natural Language Modelling, Statistical Physics and Computational Networks)
Dr Mark Jones (Number Theory and Cryptography)

School of Computing and Information Systems
Prof Les Hatton (forensic software engineering).
Dr Luke Hebbes (software, turbocodes)
Dr Eckhard Pflügel (Cryptography and Information Security)

Lecture courses
Mathematical Programming (final year BSc, Dr Jones)
Internet security (final year BSc, Dr Pflügel);
Cryptography (MSc, Dr Pflügel)

The Department runs MSc Programmes in Network & Information Security, Networking & Data Communications.
UNIVERSITY OF LANCASTER
Department of Mathematics and Statistics Fylde College, University of Lancaster, Lancaster LA1 4YF. Tel: 01524 593960 Fax: 01524 592681
http://www.maths.lancs.ac.uk

Dr. Natasha Blitvic (algebraic combinatorics, q-series and combinatorics of mathematical physics)
Prof A.G. Chetwynd (combinatorial applications in statistics)
Dr. Jan Grabowski (cluster algebras, quantum spaces and the combinatorics of their torus-invariant prime ideal spectrum)
Dr. Derek Kitson (geometric and combinatorial rigidity, operator theory, analysis)
Dr. Nadia Mazza (representation theory)
Dr Tony Nixon* (combinatorial rigidity, discrete geometry, graph theory, matroid theory)
Dr Bernd Schulze (discrete geometry, rigidity and flexibility of geometric constraint systems, graph theory, matroid theory)
Prof. Stephen Power (combinatorial rigidity, geometric constraint systems, rigidity operators).

Research Students:

Thomas Booker Price (Dr Grabowski)
Hattie Serocold (Dr Schulze)

Lecture courses:

Discrete Mathematics (1st year)
Combinatorics (3rd year)

UNIVERSITY OF LEEDS
School of Mathematics University of Leeds, Leeds LS2 9JT. Tel: 0113 3435140 Fax: 0113 3435090.
http://www.amsta.leeds.ac.uk/

Dr V. V. Kisil (Applications of coherent states, wavelet transform and group representations in quantum mechanics, combinatorics, etc).
Prof H. D. Macpherson (permutation groups and related combinatorics, logic)
Prof R. J. Marsh (Cluster algebras and related combinatorics, Coxeter groups, Representation Theory)
Prof P. P. Martin (Representation theory, connections to Combinatorics)
Dr A. E. Parker (Representation theory and connections to Combinatorics)
Prof J. K. Truss (permutation groups, automorphisms of graphs and ordered structures, logic)
School of Computing University of Leeds, Leeds LS6 2HN Tel. 0113 343 5430 Fax 0113 343 5468
http://www.scs.leeds.ac.uk
Prof Martin Dyer (algorithms and complexity)
Dr Haiko Müller* (algorithms, graph theory)
Dr Natasha Shakhlevich (deterministic scheduling theory, combinatorial optimisation, computational complexity)
Prof Kristina Vušković (graph theory, algorithms and combinatorial optimisation)

Research Students
Lokush Agarwal (Prof Truss)
Chwas Ahmed (Dr Parker, Prof Martin)
Andres Aranda Lopez (Prof MacPherson)
George Attesis (Prof MacPherson)
Robert Barham (Prof Truss)
Ricardo Bello Aguirre (Prof MacPherson)
David Bradley-Williams (Prof MacPherson and Prof Truss)
Heather Burke (Prof Martin, Prof Crawley-Boevey)
Cong Chen (Prof Truss)
Ragab Elageili (Prof Truss)
Anastasia Grekoiti (Dr Shakhlevich)
Mufida Hmaida (Prof Martin)
Ahmed Hussein (Dr Parker, Prof Martin)
Tristram Jenkinson (Prof Truss)
Mayra Montalvo Ballasteros (Prof Truss)
Andrew Reeves (Prof Martin, Prof Crawley-Boevey)
Samuel Wilson (Dr Müller)
Daniel Wood (Prof MacPherson)

Lecture courses
Introduction to Discrete Mathematics (22 lectures, 2nd year, Dr Penazzi)
Graph theory (33 lectures, 3rd year, Prof MacPherson)
Advanced Graph Theory (44 lectures, 4th year/M.Sc., Prof MacPherson)
Coding Theory (22 lectures, 3rd year, Prof Read)
Combinatorics (22 lectures, 3rd year, Dr Parker)
Mathematics for Computing (22 lectures, 1st year, Prof Vušković)

Current periodicals: (all online only): E, F, M, N, P, Q, T, V, X, Y, b,c,d,e,g,h.

UNIVERSITY OF LEICESTER
Department of Computer Science University of Leicester, University Road, Leicester LE1 7RH. Tel: 0116 252 3887 Fax: 0116 252 3604
http://www2.le.ac.uk/departments/computer-science
Prof T. Erlebach (combinatorial optimization, approximation algorithms, algorithmic graph theory)
Prof R. M. Thomas* (combinatorial group and semigroup theory, automata theory)
Research Students

Hasna Alqahtani (graph problems in networking, Prof Erlebach)
Anastasia Ioannou (modelling systems via Petri nets, Prof Thomas)
Matthew Radoja (algorithmic game theory, Prof Erlebach)
Aram Rasul (aspects of wireless networks, Prof Erlebach)
Gabriela Asli Rino Nesin (word problems and formal languages, Prof Thomas)

Lecture courses
Discrete Structures (14 lectures, 1st year, Prof Thomas)
Automata, Languages and Computation (30 lectures, 2nd year, Prof Thomas)
Analysis and Design of Algorithms (30 lectures, 3rd year, Dr Fung)
Cryptography and Information Security (30 lectures, 3rd year, Dr Fung and Dr Tuosto)
Discrete Event Systems (24 lectures, M.Sc., Dr Hoffmann)
Algorithms for Bioinformatics (24 lectures, M.Sc., Prof Erlebach)
Game Theory in Computer Science (24 lectures, M.Sc., Dr van Stee).

Seminars There is a regular seminar program, see
http://www2.le.ac.uk/departments/computer-science/news/researchevents

Department of Mathematics, University of Leicester, University Road, Leicester LE1 7RH. Tel: 0116 252 3917 Fax: 0116 252 3915
http://www2.le.ac.uk/departments/mathematics

Dr S. Schroll (representation theory of algebras, homological algebra)

Research students

Drew Duffield (Brauer graph algebras, Dr Schroll)

Seminars There is a regular seminar program, see
http://www2.le.ac.uk/departments/mathematics/research/pure/colloquium
http://www2.le.ac.uk/departments/mathematics/research/applied/applied_seminar

Current periodicals: E, F, M, N, T, X, Y, b, d, h (paper)
E, F, M, N, P, Q, R, T, U, X, Y, b, c, d, e, f, g, h (electronic)

UNIVERSITY OF LIVERPOOL
Department of Computer Science University of Liverpool, Ashton Building, Liverpool L69 3BX, United Kingdom. Tel. 0151 795 4276 Fax: 0151 795 4235.
http://www.csc.liv.ac.uk/
Prof P. Dunne (Complexity theory and algorithm design)
Prof L. Gasieniec (Distributed and parallel computing; network communication; algorithmic agent design; string matching)
Prof D. Kowalski (Distributed computing; network communication)
algorithms; fault tolerance; combinatorial and randomized data structures)
Prof P. Krysta (algorithmic game theory, Algorithmic mechanism design, Combinatorial optimisation, Approximation algorithm)
Prof P. Spirakis (Algorithms & Complexity, Probabilistic methods in algorithms, algorithmic game theory)
Dr A. McCabe (auctions and mechanism design).
Dr I. Biktasheva (Computational mathematics; computational biology; autowaves and autowave vortices; computer modeling for cardiology; high performance computing)
Dr G. Christodoulou (Algorithmic game theory, Inefficiency of equilibria, Algorithmic mechanism design)
Dr M. Gairing (Algorithmic Game Theory, Approximation Algorithms)
Dr R. Martin (Distributive computing, randomized algorithm, enumerative combinatorics)
Dr I. Potapov (Design and analysis of algorithms; computational models and automata theory; decidability issues)
Dr R. Savani (Algorithmic Game Theory, Equilibrium Computation, Automated and Algorithmic Trading)
Dr D. Wojtczak (stochastic games, Markov chains, algorithmic game theory, control theory, modelling of biological and queueing systems)
Dr P. Wong (combinatorial algorithms, scheduling, packing, computational biology)
Dr M. Zito (algorithms and complexity, random structures)

Research Fellows
Dr John Fearnley (Algorithmic Game Theory. Logic and Computation).
Dr. Pavel Semukhrin (reachability problems, automatic structures, computational learning theory, computability theory)
Dr Jinshan Zhang (Algorithmic game theory, Algorithmic mechanism design)

Research Students
Eleni Akrida (algorithms, graph theory, random graphs)
Athraa Al-Krizi (network security)
Sultan Alshamrani (cloud computing, network patrolling)
Eleftherios Anastasiadis (Algorithmic game theory, Mechanism design)
Mohamed Arikiez (Smart home energy management systems)
Mihai Burcea (Energy-efficient algorithms; energy-efficient scheduling; windows scheduling; dynamic bin packing)
Thomas Carroll (String algorithms, Combinatorics, Bioinformatics, GPU Computing)
Argyrios Deligkas (Mechanism design, Revenue maximisation)
Keren Dong (Automated and Algorithmic Trading)
Ashley Farrugia (Dynamic vehicle routing mechanisms; off-line and online time series analysis of vehicle data)
Thomas Gorry (Distributed computing; algorithmic agent design; rendezvous)
David Hamilton (visualisation and animation mechanisms for large networks)
Tobenna Peter Igwe (Algorithmic Game Theory)
Hsiang Hsuan Liu (algorithm design, parameterized complexity)
Jie Min (recognition of structural properties in complex networks)
Reino Niskanen
Jude-Thaddeus Ojiaku (Energy efficient algorithms, GPU computing)
Pavan Sangha (Random graphs)
Lecture courses:
Comp108: Algorithmic Foundations (1st year)
Comp109: Foundations of Computer Science (1st year)
Comp202: Complexity of Algorithms (2nd year)
Comp218: Decision, Computation and Language (2nd year)
Comp309: Efficient Sequential Algorithms (3rd year)
Comp323: Introduction to Computational Game Theory (3rd year)
Comp324: Complex Information and Social Networks (3rd year)
Comp523: Advanced Algorithmic Techniques (Master’s)
Comp526: Applied Algorithmics (Master’s)
Comp557: Optimisation (Master’s)
Comp559: Computational Auctions and Mechanism Design (Master’s)

Seminar:
Each research group holds regular seminars.

With strong mathematical interests is also the NeST initiative:
http://www.liv.ac.uk/network-science-technologies
Operational Research Group, Department of Management. London School of Economics, Houghton Street, London WC2A 2AE Tel: 0207 955 7653 Fax: 0207 955 6885
http://www.lse.ac.uk/collections/operationalResearch/
Prof Gautam Appa (Emeritus: orthogonal latin squares, mixed integer programming, robust regression)
Prof Gregory Sorkin (combinatorial optimisation).
Prof Richard Steinberg (operations management, combinatorial auctions, transportation networks)
Prof Paul Williams (Emeritus: linear and integer programming)

Research students
Marta Casetti (Prof von Stengel)
Ewen Davies (Dr Skokan)
Steffen Isslieb
Matthew Jensen (Dr Skokan)
Tom Lidbetter (Prof Alpern)
Barnaby Roberts (Dr Skokan)

Lecture courses
Discrete Mathematics (20 lectures, 2nd year, Dr Skokan)
Combinatorial Optimization (20 lectures, M.Sc., Prof Appa)
Theory of Algorithms (20 lectures, 3rd year, Prof von Stengel)
Computational Learning Theory and Neural Networks (20 lectures, M.Sc., Dr Batu)
Algorithms and Computation (20 lectures, M.Sc., Prof von Stengel)
Discrete Mathematics and Complexity (20 lectures, M.Sc., Dr Skokan)
Information, Communication and Cryptography (20 lectures, M.Sc., Prof Biggs)

Seminars
Seminar on Discrete and Applicable Mathematics, Thursdays 2:00
CDAM Informal Workshop, Fridays 12:00
http://www2.lse.ac.uk/maths/Seminars

London South Bank University
Faculty of Business, Computing and Information Management B.C.I.M., London South Bank University, 103 Borough Road, London SE1 0AA. Tel: 0207 928 8989 Fax: 0207 815 7793
http://www.lsbu.ac.uk/bcim/depts/msfs/
Dr Elroy Benjamin
Dr Carrie Rutherford (graph and matroid theory)

Lecture courses
Discrete mathematics occurs in the first year of all the computing courses (Dr Benjamin).
Applications of combinatorics appear in the 2nd year module Business Manamagnet with Analytics (Dr Rutherford)

Study group/working paper series:
http://myweb.lsbu.ac.uk/~ruthercg/MathsStudyGroup/

Current periodicals: A B H J L M a c d N O P Q R S T U X Y Z f

UNIVERSITY OF MANCHESTER
School of Mathematics
University of Manchester, Oxford Road, Manchester M13 9PL. Tel: 0161 275 5800 Fax: 0161 275 5819
http://www.manchester.ac.uk/maths/
Dr Y. Bazlov (representation theory, including interactions with combinatorics)
Prof A.V. Borovik (matroids and generalisations, Coxeter matroids, Coxeter groups)
Prof D. S. Broomhead (applied tropical algebra and geometry, dynamics on graphs)
Prof R. M. Bryant (emeritus: groups, Lie algebras)
Dr J. Hook (stochastic processes on graphs)
Dr M. Johnson* (tropical algebra and geometry, free Lie algebras and Young tableaux)
Dr M. Kambites (tropical algebra and geometry, combinatorial group and semigroup theory, automata, computational complexity and cryptography)
Dr H. Khudaverdian (Lie groups and algebras; symmetric functions; Schur functions; Young tableaux; combinatorics in geometry)
Prof P. J. Laycock (Emeritus: experimental design)
Prof J. Paris (logic, including interactions with combinatorics)
Prof N. Ray (combinatorial Hopf algebras, geometry and combinatorics of polytopes)
Prof P. J. Rowley (group theory)
Dr R. Sandling (Steenrod algebra: lattices)
Prof R. Stöhr (Group theory and Lie algebras, including combinatorial aspects and methods).

Research Students
Amit Kuber (graph theory, lattice theory and combinatorial aspects of category theory, Dr Prest)
Ronel Tahel (inductive logic, Prof Paris and Dr Alena Vencovska)
David Ward (combinatorial group theory, presheaves defined on simplicial complexes: Prof Rowley)

Lecture courses
Discrete Mathematics (24 lectures, 2nd year, Dr Mark Muldoon)
Coding Theory (24 lectures, 3rd year, Dr Bazlov)
Combinatorics and Graph Theory (24 lectures, 3rd year, Dr Gabor Megyesi)
Mathematical Programming (24 lectures, 3rd year, Mr. Mike Tso)
Computation and Complexity (32 lectures, 4th year/MSc, Dr Kambites)

Current periodicals: A, B, E, F, H, I, L, M, N, P, R, S, T, U, V, X, Y, Z, a, b, c, d, e, f, g, h.
Dr Thomas D. Bending* (Bent functions; finite geometries; lotteries).

Lecture Courses
Logic and Structures (1st year)
Combinatorics (3rd year)
Discrete Mathematics and Geometry (2nd year)


UNIVERSITY OF NEWCASTLE UPON TYNE
School of Mathematics and Statistics Newcastle University, Newcastle upon Tyne
NE1 7RU. Tel: 0191 222 6000 Fax: 0191 222 8020
http://www.ncl.ac.uk/math/
Dr A. J. Duncan (combinatorial group theory, one-relator products of groups, decision problems and equations over presentations of groups)
Dr O. H. King* (subgroup structure of classical groups, finite geometry)
Prof S. Rees (algorithms in group theory and geometry, automatic groups and related classes of groups, connections between group theory and formal language theory)
Dr Alina Vdovina (geometric group theory, noncommutative geometry, knot theory, Riemannian geometry)

Research students
Nicholas Loughlin, (combinatorial/geometric semigroup theory, cellular and diagram algebras and their K-theory, formal language theory and connections with semigroup theory, Prof Rees)

Lecture courses
Enumeration and Combinatorics (24 lectures, 2nd year, Dr Vdovina)
Geometries and Designs (24 lectures, 3rd year, Dr Vdovina)
Coding Theory (24 lectures, 3rd year, Prof Rees).

Current periodicals: A, B, F, H, I, J, L, M, N, P, Q, R, S, T, U, V, X, Y, Z, a, b, c, d, e, f, g. Almost all current issues are electronic access only.

UNIVERSITY OF NOTTINGHAM
School of Mathematical Sciences University of Nottingham, University Park,
Nottingham NG7 2RD. Tel: 0115 951 4949 Fax: 0115 951 4951
http://www.maths.nottingham.ac.uk
Dr D.R. Woodall* (retired: graph colourings)
**Lecture courses**
Graph Theory (20 lectures, 3rd year, Dr Diamantis)
Coding and cryptography (20 lectures, 3rd year, Dr Stromberg)

*Current periodicals*: several (electronic access only).

**NOTTINGHAM TRENT UNIVERSITY**

School of Science and Technology. Nottingham Trent University, Clifton Campus, Nottingham NG11 8NS. Tel: 0115 848 8417
http://www.ntu.ac.uk/sat/about/academic_teams/phys_maths.html

Prof Nadia. Chuzhanova (bioinformatics, combinatorics on words)
Dr Jonathan J. Crofts (computational graph theory, complex networks, combinatorics, data-mining, computational biology)
Dr Timothy J. Hetherington* (graph theory, particularly graph colourings)
Dr Colin M. Willmott ((Algebra, combinatorics, geometry, quantum coding, quantum cryptography and entanglement theory)

**Research students**: 
Daniel Buxton (applications of complex networks: Prof. Chuzhanova).

**Lecture courses**: 
Topics in Pure Mathematics: Graph Theory (12 lectures, 3rd year, Dr Hetherington). 
Coding Theory and Cryptography (24 lectures, 3rd and 4th year, Dr Wilmott and Dr Hetherington).

*Current periodicals*: several (electronic access only).

**THE OPEN UNIVERSITY**

Department of Mathematics and Statistics The Open University, Walton Hall, Milton Keynes MK7 6AA. Tel: 01908 653479 Fax: 01908 653744
http://www.mathematics.open.ac.uk/

Dr Silvia Barbina (permutation groups, automorphism groups of countable structures)
Dr Robert Brignall (permutation classes, relational structures, graph theory, well quasi order)
Dr Katie Chicot (infinite combinatorics)
Prof Mike Grannell (Emeritus: combinatorial design theory, combinatorial computing, Steiner systems, topological design theory)
Prof Terry Griggs (Emeritus: combinatorial design theory, combinatorial computing, Steiner Systems, topological design theory)
Prof Uwe Grimm (enumerative combinatorics, words, tilings, applications to physics)
Dr Fred Holroyd (retired: fractional graph colourings, graceful and related tree labellings, Erdős-Ko-Rado properties of graphs)
Dr Kathleen Quinn* (designs and their applications)
Prof Jozef Širáň (topological graph theory, Cayley graphs)
Dr Bridget Webb (automorphisms of designs, Latin squares, infinite designs)
Prof Robin Wilson (Emeritus: history of graph theory and combinatorics, graph colourings)

**Visiting research fellows**
Dr Aistis Atminas (graph theory, well-quasi ordering)
Dr David Bevan (permutation patterns)
Dr Tony Forbes (Mathematics: combinatorial designs)

**Research students**
Grahame Erskine (vertex-transitive and Cayley graphs in the degree-diameter and the degree-girth problem: Prof Širáň and Dr Webb)
Robert Lewis (analysis and construction of extremal highly symmetric graphs with given metric properties: Prof Širáň and Dr Webb: part-time)
Jakub Sliacan (permutation patterns: Dr Brignall)
James Tuite (vertex-transitive and Cayley graphs and embeddings: Prof Širáň)

**Courses**
MT365: Graphs, networks and design (3rd year)
M836: Coding Theory (M.Sc.).
M840: Dissertation in mathematics (algebraic graph theory option) (M.Sc.).

**Current periodicals:** A, B, C, D, E, F, H, I, J, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z, a, b, c, d, e, f, g, h, i (some electronic access only).

**UNIVERSITY OF OXFORD**
*The Mathematical Institute* 24-29 St. Giles, Oxford OX1 3LB. Tel: 01865 273525
Fax: 01865 273583
[http://www.maths.ox.ac.uk](http://www.maths.ox.ac.uk)
Dr David Conlon (graph theory and combinatorics)
Prof Ben Green (additive combinatorics)
Dr Raphael Hauser (continuous optimization, applied probability)
Prof Peter Keevash (extremal and probabilistic Combinatorics)
Dr Robert Leese (channel assignment problems)
Dr Matthias Lenz (matroids)
Dr V. Neale (additive combinatorics)
Dr Mason Porter (applications of networks)
Dr. Sean Prendiville (additive combinatorics)
Dr Michal Przykucki (probabilistic combinatorics)
Prof Oliver Riordan (combinatorics, graph theory)
Dr Tom Sanders (additive combinatorics)
Prof Alex Scott (combinatorics, graph theory)
Prof Dominic J. A. Welsh (retired: combinatorics, applied probability, complexity)
Department of Statistics  1 South Parks Road, Oxford OX1 3TG. Tel: 01865 272860
Fax: 01865 272595
http://www.stats.ox.ac.uk
Dr Christina Goldschmidt (probability theory and combinatorics)
Prof Colin J. H. McDiarmid* (probability and algorithms, probabilistic methods in
combinatorics, colouring problems)
Dr James Martin (probability theory, links to statistical physics and theoretical
computer science)
Prof Gesine Reinert (network statistics (including small world graphs), applied
probability).

Department of Computer Science  Wolfson Building, Parks Road, Oxford OX1 3QD
Tel: 01865 73838 Fax: 01856 73839
http://www.cs.ox.ac.uk
Prof Peter Jeavons (algorithms and complexity, constraint satisfaction)
Prof Leslie A. Goldberg (combinatorial algorithms, complexity of counting and
sampling)
Prof Paul Goldberg (algorithms, game theory)
Prof Georg Gottlob (algorithms and complexity)
Dr Stanislav Živný (discrete optimisation, constraint satisfaction, generalisations of submodularity)

Research students
Matthew Ashford (Prof Riordan)
Ross Atkins (Prof McDiarmid)
Sean Eberhard (Prof Green)
Annihe Heckel (Prof Riordan)
Anne Hillebrand (Profs McDiarmid and Scott)
Joonkyung Lee (Dr Conlon)
Natasha Morrison (Prof Scott)
Rudi Mrazovic (Prof Green)
Jonathan Noel (Prof Scott)
Alexander Roberts (Prof Scott)
Aled Walker (Prof Green)
Paul Withers (Profs McDiarmid and Scott)

Lecture courses
Communication theory (16 lectures, 3rd year, Dr D. Stirzaker)
Integer programming (16 lectures, 3rd year, Dr Hauser)
Graph Theory (8 lectures, 2nd year, Prof McDiarmid)
Graph Theory (16 lectures, 4th year, Prof Riordan)
Probabilistic Combinatorics (16 lectures, 4th year, Prof McDiarmid)

Seminar Combinatorial theory (Tuesdays at 2.30 p.m.)

Current periodicals: D, E, J, K, L, N, P, Q, T, Y

UNIVERSITY OF PLYMOUTH
School of Mathematics & Statistics  University of Plymouth, Drake Circus, Plymouth
PL4 8AA. Tel: +44 (0)1752 586888 Fax: +44 (0)1752 586900
http://www.plymouth.ac.uk/pages/view.asp?page=7889
Prof Stephen Huggett  (graph theory, twistor theory).
Dr Tom McCourt* (graph theory, combinatorial design theory, related algebraic structures)

Research students
Mary Griffiths (Prof. Huggett).

Lecture courses
Optimisation, Networks and Graphs (3rd year, 12 weeks, 6 hours per week of which 3 are on discrete topics).

Seminars
Pure Mathematics Seminar (weekly).

UNIVERSITY OF PORTSMOUTH
Department of Mathematics  Buckingham Building, Lion Terrace, Portsmouth,
Hampshire PO1 3HE Tel: 023 9284 6367 Fax: 023 9284 6364
http://www.port.ac.uk/departments/academic/maths
Dr Murad Banaji (graph theory and applications to chemical reactions).
Dr A. Makroglou*
Current periodicals: X, Y, b

QUEEN MARY, UNIVERSITY OF LONDON
School of Mathematical Sciences (Mathematics Research Centre) Queen Mary,
University of London, Mile End Road, London E1 4NS. Tel: 0207 975 5440 Fax: 0208 980 9587
http://www.maths.qmw.ac.uk/
Prof David. K. Arrowsmith (graph colourings, percolation theory, interaction models and knot invariants)
Prof Rosemary A. Bailey (design of experiments, latin squares and their generalisations, designs for complicated block structures, association schemes, partition species)
Dr John N. Bray (group theory)
Prof Peter J. Cameron* (groups and their operands, graphs, codes, designs, models, orbits and enumeration)
Dr David Ellis (combinatorics, especially its interaction with other parts of mathematics)
Dr Dvir Falk (Combinatorics)
Dr Matt Fayers (representation theory and Combinatorics)
Dr Alex Fink (Combinatorics and tropical geometry)
Prof Anthony Hilton (Emeritus Professor: graph theory, design theory, finite set systems)
Prof Bill Jackson (graph theory)
Prof Mark Jerrum (computational complexity, probabilistic computation, the complexity of combinatorial enumeration)
Dr J. Robert Johnson (graph theory and combinatorics)
Prof Malwina Luczak (probability, including combinatorial probability)
Prof Thomas Müller (group theory, combinatorics, analysis)
Dr Thomas Prellberg (statistical mechanics, dynamics, enumerative combinatorics)
Prof Leonard H. Soicher (computational group theory, graph theory, finite geometry, design theory)
Dr Dudley S. Stark (probability and combinatorics)
Dr Mark Walters (probabilistic combinatorics, percolation, extremal problems)
Prof Robin Whitty (combinatorics)
Prof Rob A. Wilson (computational group theory)

Researchers
Dr Emil Vaughan (graph theory and statistics)

Research students
Michael Brough (graph theory: Prof Jackson)
Andrew Drizen (design theory, Markov chains: Prof Cameron)
Derek Patterson (design theory: Prof Soicher)

Lecture courses
Algorithmic Graph Theory (36 lectures, 2nd year)
Combinatorics (36 lectures, 3rd year, Prof Jackson)
Coding Theory (36 lectures, 3rd year, Dr Fayers)
Cryptography (36 lectures, 3rd year, Prof Jackson)
Extremal combinatorics (24 lectures, M.Sc)

Seminars Combinatorics study group (Fridays 4:30pm)
http://www.maths.qmul.ac.uk/~pjc/csg.html
Design of Experiments (Dr Coad, Thursday 4:30pm)
Pure Mathematics (Dr Tomasic, Monday 4:30pm)

Current periodicals: A, B, E, F, H, I, J, L, M, N, P, Q, R, S, T, U, V, X, Y, a, b, c, d, e, f, g. Print only for g, electronic only for A, I, J, L, M, Q, S, a, c,d.e.f. All others available both electronically and in print.

UNIVERSITY OF READING
Department of Mathematics University of Reading, Whiteknights, P.O. Box 220
Reading, Berks RG6 6AX. Tel: 0118 378 8996 Fax: 0118 931 3423
Prof P. Grindrod (applications of graph theory and networks)
Prof A. J. W. Hilton* (graph theory, design theory, finite set systems)
Dr W. R. Johnstone (graph theory)
Dr D. S. G. Stirling (graph theory)

Lecture courses
Linear Algebra and Coding Theory (44 lectures, Dr T. Kuna)
Current periodicals: C, N, P, S, X, Y, b

ROYAL HOLLOWAY, UNIVERSITY OF LONDON
Department of Mathematics Royal Holloway, Egham Hill, Egham, Surrey TW20 0EX. Tel: 01784 443093 Fax: 01784 430766
http://www.ma.rhul.ac.uk
Prof Simon R. Blackburn* (group theory, algebra and combinatorics of data communications, coding theory, cryptography)
Prof Carlos Cid (cryptography, security, computational algebra)
Prof Jason Crampton (applications of discrete mathematics to access control)
Dr Rainer Dietmann (analytic number theory, diophantine equations, additive combinatorics)
Prof John W. Essam (applications of graph theory, combinatorics, numerical analysis and computing techniques to problems in critical phenomena theory, in particular to phase transitions, conduction in disordered materials, polymer science, epidemic models and cellular automata)
Dr Stefanie Gerke (graph theory, combinatorics, random structures and algorithms)
Prof Keith M. Martin (cryptography and information security)
Prof James McKee (Salem numbers, Pisot numbers, Mahler measure, elliptic curves, computational number theory)
Prof Chris Mitchell (cryptography and information security)
Dr Iain Moffatt (algebraic combinatorics, topological graph theory, knot theory)
Prof Sean P. Murphy (spatial probability, cryptography)
Dr Siaw-Lynn Ng (combinatorics, finite geometry, applications to information security)
Prof Kenneth G. Paterson (cryptography and coding)
Dr Mark Wildon (representation theory, group theory, combinatorics)

Visiting Professors Prof Nelson Stephens, Prof Mike Walker (Vodafone Chair in Communications)

Department of Computer Science Royal Holloway, Egham Hill, Egham, Surrey TW20 0EX. Tel: 01784 443421 Fax: 01784 443420
http://www.cs.rhul.ac.uk
Prof Dave. Cohen (constraint satisfaction, graphs and hypergraphs)
Prof Gregory Gutin (graphs and combinatorics, combinatorial optimisation, access control)
Dr Iddo Tzameret (theory of computation);
Dr Magnus Wahlström (combinatorial algorithms)

Postdoctoral researchers
Dr Chris Dowden (graph theory and communication theory)
Dr Andrei Gagarin (Combinatorics, optimization, graph theory, networks, algorithms, enumeration, access control)
Dr Mark Jones (combinatorial algorithms)
Dr Rémi Watrigant (combinatorial algorithms)
Research students
James Alderman (access control and cryptography, Prof Crampton)
Elizabeth Berners-Lee (cryptography, Prof. Cid)
Jessica Claridge (network coding, Prof Blackburn)
Jonathan Cooley (number theory, Prof McKee)
Alex Davidson (cryptography, Prof. Cid)
Naomi Farley (access control, Prof Crampton and Prof Gutin)
David Hutchinson (cryptography, Prof Paterson)
Christian Janson (cryptography, Prof Cid)
Thalia Laing (cryptography, Prof Martin)
Thyla van der Merwe (cryptography, Prof Paterson)
Mwawi Nyirenda (combinatorial applications to cryptography, Prof Martin, Dr Ng)
Bill O’Donovan (representation theory, Dr Wildon)
Laurence O’Toole (DES, MARS, feistel networks)
Rachel Player (learning with errors-based schemes, Prof Cid)
Ricardo Villanueva Polanco (cryptography, Prof Paterson)
Gordon Procter (cryptography, Prof Cid)
Sam Scott (cryptography, Prof. Paterson)
James Sellwood (access control, Prof Crampton)
Aleen Sheikh (number theory, Prof Blackburn)
Bin Sheng (combinatorial algorithms, Prof Gutin)
Dale Sibborn (cryptography, Prof Paterson)
Benjamin Smith (graph theory, Dr Moffatt)
Conrad Williams (access control, Prof Crampton)
Joanne Woodage (cryptography, Prof. Paterson)

Pavlo Yatsyna (matrices and polynomials, Prof McKee).

Lecture courses

Graphs and Optimisation (33 lectures, 2nd year)
Cipher systems (33 lectures, 3rd year)
Error correcting codes (33 lectures, 3rd year)
Theory of error correcting codes (44 lectures, p/g)
Channels (33 lectures, p/g)
Combinatorics (33 lectures, p/g)
Principles of Algorithm Design (33 lectures, p/g)
Public Key Cryptography (33 lectures)
Advanced Cypher Systems (44 lectures, p/g)
Applications of Field Theory (33 lectures, p/g)

The Department of Mathematics runs taught M.Sc. programmes in Information Security, Mathematics of Cryptography and Communications, and Mathematics for Applications.

Seminars Pure Maths Seminar (Dr Moffatt, Dr. Martin Widmer) (Tuesdays at 2.00 p.m. in room 219).
Information Security Seminar (Dr Lorenzo Cavallaro) (Thursdays 11.00 in Room C229).

UNIVERSITY OF ST. ANDREWS
School of Mathematics and Statistics The Mathematical Institute, North Haugh, St. Andrews, Fife KY16 9SS. Tel: 01334 463745 Fax: 01334 463748
http://www.mcs.st-and.ac.uk

Prof R. A. Bailey (design of experiments, latin squares and their generalisations, designs for complicated block structures, association schemes, partition species)
Dr C. Bleak (geometric group theory, automatic structures)
Prof P. J. Cameron (groups and their operands, graphs, codes, designs, models, orbits and enumeration)
Dr C. M. Campbell (combinatorial group theory, combinatorics of semigroup presentations)
R. L. Constable (combinatorics)
Prof K. J. Falconer (combinatorial geometry)
Dr S. Huczynska (Applications of finite fields, permutation arrays, combinatorial designs)
Dr A W. Kemp (combinatorial applications in statistics)
Prof C. D. Kemp (combinatorial applications in statistics)
Dr T. Kempton
Dr J. H. McCabe (graph theory, number theory)
Dr J. D. Mitchell (combinatorial and topological applications of group and semigroup theory)
Dr J. J. O'Connor (combinatorial group theory)
Prof L. Olsen (analysis and combinatorics)
Dr M. R. Quick (group theory)
Prof I. Rivin (combinatorics, number theory, geometric topology, group theory)
Prof E. F. Robertson (combinatorial group theory, combinatorics of semigroup presentations)
Dr C. M. Roney-Dougal* (finite permutation and matrix groups, computational group theory, geometric group theory)
Prof N. Ruškuc (combinatorics of words, mappings, permutations: combinatorial semigroup theory)
Dr M. Todd (ergodic theory)

Research Students
Mr. D. Bennett
Miss E. Bieniecka
Mr. T. Bourne
Miss R. Carey
Mr. C. Donoven
Mr. J. Jonusas
Miss N. Khalid
Mr. M. McDevitt
Mr. V. Mijovik
Mr A. Schaefer
Lecture courses
Combinatorics and Probability (24 lectures, 2\textsuperscript{nd} year)
Finite mathematics (24 lectures, 3\textsuperscript{rd}/4\textsuperscript{th} year, alternate years)
Graph Theory (24 lectures, 3\textsuperscript{rd}/4\textsuperscript{th} year, alternate years)
Advanced combinatorics (24 lecture, 4\textsuperscript{th}/5\textsuperscript{th} year, alternate years)
Various courses involving algorithms and complexity at 3\textsuperscript{rd}/4\textsuperscript{th} year level.

Seminars
Pure Mathematics Colloquium 4pm Thursdays
Algebra and Combinatorics Seminar 4pm Wednesdays

School of Computer Science
North Haugh, St Andrews, Fife KY16 9SX.
Tel: 01334 463253 Fax: 01334 463278
http://www.cs.st-andrews.ac.uk/
Prof Steve A. Linton (computational algebra: systems, algorithms and applications)
Dr A. B. Konovalov
Dr M. Pfeiffer (automatic structures)

Current periodicals: A, B, E, F, H, J, L, M, N, P, Q, R, S, U, V, X, Y, Z, a, b, c, d, e, f, g (all online only).

UNIVERSITY OF SALFORD
Mathematics Section, School of Computing, Science and Engineering
University of Salford, Salford M5 4WT.
http://www.cse.salford.ac.uk
Emeritus Professor: Ray Hill* (coding theory, finite geometry)
Current periodicals: T

UNIVERSITY OF SHEFFIELD
School of Mathematics and Statistics
University of Sheffield, Hicks Building, Hounsfield Road, Sheffield S3 7RH. Tel: 0114 222 3752. Fax 0114 222 3809

Prof Chris Cannings (evolutionary conflicts, random graphs, stochastic processes, mathematical genetics)
Dr Paul Johnson (algebraic geometry, combinatorics)
Dr Jonathan Jordan (probability, random graphs)

UNIVERSITY OF SOUTHAMPTON
School of Mathematics
University of Southampton, Southampton SO17 1BJ. Tel: 023 8059 3612 Fax: 023 8059 5147
http://www.maths.soton.ac.uk
Prof G. A. Jones* (permutation groups, connections between groups and graphs)
Prof R. C. King (retired: representations theory of Lie algebra and superalgebras, applications in Physics)
Dr E. K. Lloyd (retired: combinatorics and graph theory including applications and history)
Prof C. N. Potts (combinatorial optimization and scheduling)
Prof D. Singerman (discontinuous groups with applications to Riemann surfaces and the theory of maps)

Department of Management 023 8059 3966
http://www.management.soton.ac.uk
Dr Julia A. Bennell

Lecture courses
Combinatorics and Graph theory (13 lectures, 1st year, Dr Ann Hirst)
Theory of numbers (36 lectures, 3rd/4th year, Dr Mary Jones)
Scheduling (10 lectures, M.Sc., Prof Potts)
Algorithms (36 lectures, 2nd year, Prof Jones)
Information and coding Theory (36 lectures, 3rd year, Prof Jones)
Algorithms, machines and languages (36 lectures, 3rd/4th year, Prof Jones)
Finite Mathematics (36 lectures, 3rd /4th year, Dr Jim Renshaw)
Graph Theory (36 lectures, 3rd/4th year, Dr Renshaw)


UNIVERSITY OF SOUTH WALES
Division of Mathematics and Statistics University of South Wales, Pontypridd, Mid Glamorgan CF37 1DL. Tel: 01443 482136 Fax: 01443 482169
http://www.southwales.ac.uk/maths/research/

Dr F. Hunt (coding theory, signal sets with low correlation)
Dr S. Jones* (properties of Sudoku puzzles and their variants)
Dr S. Perkins (coding theory, synchronization, combinatorial puzzles)
Prof D. H. Smith (emeritus professor: coding theory, permutation codes, DNA codes, frequency assignment)

Research students
Liam Harris (combinatorial problems on the chessboard, Dr Perkins)

Lecture courses
Codes and Information (3rd year, Dr Perkins, Dr Hunt)
Combinatorics and Network flows (2nd year, Dr Perkins and Dr Jones)

Current periodicals: J, N, T, X, Y, e. T is online only after Vol. 51. J is only from 2004.

STAFFORDSHIRE UNIVERSITY
Faculty of computing, Engineering and Technology, Staffordshire University, Leek Road, Stoke-on-Trent, ST4 2AZ. Tel/Fax: 01782 294026
Prof Brian Burrows
Dr Sarah J. Easton*

UNIVERSITY OF STIRLING
Mathematics and Statistics Group, Institute of Computing Science & Mathematics
The University of Stirling, Institute of Computing Science and Mathematics, Stirling, Scotland FK9 4LA. Tel: 01786 467460 Fax: 01786 464551
http://www.cs.stir.ac.uk/maths/
Dr P. S. Jackson (algebraic graph theory)
Prof P. Rowlinson* (Emeritus: algebraic graph theory) http://www.cs.stir.ac.uk/~pr/

Lecture courses
Discrete structures (44 lectures, 1st year)
Combinatorics (32 lectures, 3rd/4th year, alternate years)
Algebra and codes (32 lectures, 3rd/4th year, alternate years)


STRATHCLYDE UNIVERSITY
Department of Computer and Information Sciences
Livingstone Tower, 26 Richmond Street, Glasgow G1 1XH. Tel: 0141 548 2934 Fax: 0141 548 4523
http://www.strath.ac.uk/cis/

Dr Anders Claesson (algebraic and enumerative combinatorics)
Dr Mark Dukes (combinatorial and discrete mathematics, statistical mechanics, applied probability)
Dr Sergey Kitaev (combinatorics, discrete analysis, graph theory, formal languages)
Prof Einar Steingrimsson (algebraic and enumerative combinatorics)

Department of Mathematics and Statistics
Livingstone Tower, 26 Richmond Street, Glasgow G1 1XH. Tel: 0141 548 3804 Fax: 0141 548 3345
http://www.mathstat.strath.ac.uk/

Prof Des Higham (small-world graphs, applications, links to numerical analysis)
Dr Andrew Wade (applied probability, including random graphs).

UNIVERSITY OF SURREY
Department of Mathematics
University of Surrey, Guildford, Surrey GU2 7XH. Tel: 01483 300800 Fax: 01483 686071
http://www.maths.surrey.ac.uk/
Honorary Visiting Senior Research Fellow Dr A.D. Keedwell* (Latin squares and quasigroups, finite projective planes, coding theory)
Lecture courses
Groups and rings (33 lectures, 2nd year, Dr D. Fisher)
Advanced Algebra (33 lectures, 3rd year, Dr D. Fisher)
Galois theory (33 lectures, 3rd year, Dr D. Fisher)
Algebra and codes (33 lectures, 2nd year, Dr D. Fisher)
Graphs and networks (33 lectures, 3rd year, Dr D. Fisher in 2014/15 session)
Experimental design (33 lectures, 3rd year (alternate years), Dr J. D. Godolphin)

Current periodicals: C, i (paper).

UNIVERSITY OF SUSSEX
Department of Mathematics University of Sussex, Brighton, East Sussex BN1 9QH.
Tel: 01273 877345 Fax: 01273 678097
http://www.sussex.ac.uk/maths
Prof J. W. P. Hirschfeld* (finite geometry, algebraic geometry, coding theory)

Research students
Salam Alabdullah (finite geometry, Prof Hirschfeld)
Hannah Folkes (finite geometry, Prof Hirschfeld)
Zainab Hamed (finite geometry, Prof Hirschfeld)
Mohammad Hazzari (finite geometry, Prof Hirschfeld)
Awss Jabbar (finite geometry, Prof Hirschfeld)
Fatma Karaoglu (finite geometry, Prof Hirschfeld)
Erin Pichanick (finite geometry, Prof Hirschfeld)

Lecture courses
Ring Theory (36 lectures, 3rd/4th year, Dr R. A. Fenn)
Coding Theory (36 lectures, 3rd/4th year, Prof Hirschfeld)
Cryptography (36 lectures, 3rd/4th year, Dr K. Blyuss)

Current periodicals: None

SWANSEA UNIVERSITY
Mathematics Department Swansea University, Singleton Park, Swansea SA2 8PP
Tel: 01792 295457 Fax: 01792 295843
http://www.maths.swan.ac.uk
Dr F. W. Clarke
Dr A.D. Thomas

Lecture courses
Combinatorics (20 lectures, 3rd year)
Applied algebra (40 lectures, 3rd year, Dr Clarke)

UNIVERSITY COLLEGE LONDON
Department of Mathematics University College London, Gower Street, London
WC1E 6BT. Tel: 020 7679 2839 Fax: 020 7383 5519
http://www.ucl.ac.uk/Mathematics
Prof I. Bárány (convex geometry, geometry of numbers, theory of integer programming)
Prof M. Csörnyei (real analysis)
Dr J.A. Haight (combinatorial number theory, measure theory, ramsey theory, logic)
Prof M. Laczkovich (real analysis)
Prof D.G. Larman (geometric analysis, combinatorics)
Prof P. McMullen (Emeritus: convexity, regular polytopes)
Prof A. Sokal (combinatorial aspects of mathematical physics)
Dr J. Talbot* (combinatorics, complexity theory)

Department of Economics University College London, Gower Street, London WC1E 6BT Tel: 020 7679 5888 Fax: 020 7916 2775
http://www.ucl.ac.uk/economics/
Prof K. Binmore (Emeritus: game theory)

Research students
Louise Jottrand (shadow boundaries of convex bodies, Prof Larman).
Adam Sanitt (combinatorics, Dr Talbot)
Pablo Soberon Bravo (Prof Bárány)

Lecture courses
Optimisation (2nd year)
Graph Theory and Combinatorics (3rd year)
Geometry of numbers (3rd year, Prof Larman)
Computational Geometry (3rd year, Prof McMullen)
Game theory (3rd year, Prof Binmore)

Seminar Colloquium (Tuesdays at 4.00 p.m.)
Informal Seminar (Wednesdays at 4.30pm)

VODAFONE GROUP UK.
Vodafone House, 1 The Connection, Newbury RG14 2FN. Tel: 01635 33251 Fax: 01635 31127
http://www.vodafone.com
Dr S. Babbage*
Dr N. Bone
Prof M. Walker
R. Wright

The group is interested in cryptography, randomness, statistics, auctions and game theory.

Current periodicals: Z

UNIVERSITY OF WARWICK
Coventry, CV4 7AL
Department of Computer Science  Tel: 0247652 3193 Fax: 024 7657 3024
http://www.dcs.warwick.ac.uk/
Dr. Golnaz Badkobeh (Evolutionary Algorithms, Combinatorics on words, word morphisms)
Prof Graham Cormode (managing and working with large amounts of data, with particular emphasis on privacy and anonymization, and large scale analytics)
Prof Artur Czumaj (analysis and design of algorithms and data structures, randomized algorithms, graph theory, game theory)
Dr Alina Ene (approximation algorithms for combinatorial optimisation problems)
Dr Matthias Englert (analysis and design of algorithms and data structures, approximation algorithms)
Dr Ping Hu (extrenal and probabilistic graph theory)
Dr Marcin Jurdziński (algorithmic game theory, logic in computer science, optimization)
Dr Ranko Lazić (computer science and combinatorics)
Dr Anita Liebenau (extremal and probabilistic graph theory, positional games and Ramsey theory)
Dr Andrzej Murawski (semantics of programming languages and its applications to program verification)
Prof Mike Paterson (computational complexity, analysis and design of algorithms)
Dr Marcin Pilipczuk (graph algorithms, fixed parameter tractability and exact computations of NP-hard problems, approximation algorithms)
Dr Alex Tiskin (discrete mathematics, parallel computation, combinatorial optimization)

Warwick Business School  Tel. 024 7652 8220 Fax: 024 7652 4539
http://www.wbs.ac.uk
Prof Steve Alpern (game theory, search games)
Prof Jurgen Branke (combinatorial optimisation)
Prof Bo Chen (combinatorial optimisation: game theory)
Dr Vladimir Deineko (combinatorial optimisation, polynomially solvable cases of NP-hard problems)
Dr Xuan Vinh Doan (combinatorial optimisation)
Dr Nalan Gulpinar (combinatorial optimisation)
Dr Arne Strauss (combinatorial optimisation)

Warwick Mathematics Institute  Tel. 024 7652 4661 Fax: 024 7652 4182.
http://www.maths.warwick.ac.uk
Dr Endre Csóka (graph theory, algorithms)
Dr Agelos Georgakopoulos (random walks, electrical networks, infinite graphs)
Dr Lukasz Grabowski (graph limits)
Prof Roman Kotecký (Probability; statistical physics; theory of phase transitions)
Prof Daniel Král’ (extremal and probabilistic combinatorics)
Prof Vadim Lozin (algorithmic and structural graph theory)
Prof Oleg Pikhurko* (Extremal combinatorics)
Dr Konstantinos Tyros (Ramsey theory)
Dr Katherine Staden (extremal combinatorics)

Department of Statistics  Tel. 024 7657  4812  Fax: 024 7652 4532
Dr Elisabetta Candellero (random graphs)
Dr David Croydon (random graphs)
Dr Ben Graham (percolation)
Research Students

Ostap Chervak (extremal combinatorics, graph limits, Prof Pikhurko)
Andrew Collins (Prof Lozin)
Peter Davies (algorithms, Prof Czumaj)
Michail Fasoulakis (algorithmic game theory, Prof Czumaj and Marcin Jurdzinski)
John Fearnley (algorithmic game theory, Dr Jurdzinski)
Bruno Federici (Dr Georgakopoulos)
Matthew Fitch (extremal combinatorics, Prof Pikhurko)
Sarah Gunnels (product portfolio, Prof Chen)
Fei Liu (electricity market, Prof Chen)
Tasia Lopes Martins (extremal combinatorics and flag algebras, Prof Král’)
Nicolaos Matsakis (algorithms; Matthias Englert)
Mahdi Noorizadegan (facility location and vehicle routing, Prof Chen & Dr Gulpinar)
Chenlan Wang (network routing, Prof Chen & Dr Doan)
Josh Williams (Ramsey theory, Prof. Pikhurko)

Lecture courses

Discrete Mathematics and its Applications 1 and 2 (1st year)
Combinatorics (2nd year)
Algorithm Design (2nd year)
Algorithmic Graph Theory (2nd year)
Mathematical Programming (2nd year)
Combinatorial Optimisation (2nd year)
Probability and Discrete Mathematics (2nd year)
Combinatorics II (3rd year)
Complexity of Algorithms (3rd year)
Efficient Parallel Algorithms (3rd year)
Advanced Topics in Algorithms (3rd year)
Random Discrete Structures (3rd year)
Graph Theory (4th year)
Modelling and Algorithmic Analysis of Systems (4th year)
Algorithmic Game Theory (4th year)
Mathematical Programming and Heuristics (MSc)
Operational Research (4th year)
Combinatorial Optimisation (MSc)

Some of the people listed above at Warwick are affiliated with DIMAP, the Centre for
Discrete Mathematics and its Applications; see http://www.dcs.warwick.ac.uk/dimap
for details.

UNIVERSITY OF THE WEST OF ENGLAND, BRISTOL

Faculty of Computing, Engineering and Mathematical Sciences University of the
West of England, Coldharbour Lane, Bristol BS16 1QY. Tel: 0117 344 2783 Fax:
0117 344 2734
http://www.cems.uwe.ac.uk/amg/
Dr Rhys Gwynllyw (graph theory and its applications)
Dr Ana Sendova-Franks (graph theory and its applications)
Dr Vadim Zverovich* (graph theory, combinatorial optimisation)

Research Students:
Anush Poghosyan (graph theory and algorithms, Dr Zverovich).

Lecture courses
Discrete Mathematics (2nd year)
Operational Research (2nd year)
Decision Analysis (3rd year)
Mathematical Programming (3rd year)

Current periodicals: D, N, S, b
List C.

Recent and forthcoming publications.

This list contains combinatorial books and papers, with at least one UK based author, published, accepted or submitted since the last Bulletin - i.e., during (approximately) the period April 2015-April 2016 - and have come to the attention of the Editor. “UK based” is interpreted liberally for those with more than one base.

The intention is that papers whose status has changed (by being accepted, or appearing in print) will appear again, but not those still under consideration or revision, or still waiting to be published (except possibly occasionally preprints which have undergone very substantial revision). Occasionally recent papers from slightly more than 12 months ago which were accidentally omitted from last year’s Bulletin, or preprints more than a year old which appear to be of combinatorial interest but have not previously been publicised in the Bulletin, are included. Authors are (hopefully!) listed in alphabetical order by surname, even if that is not the order in which they appear on the paper – this is essential to keep the Bulletin orderly - and that all co-authors (UK based or not) are cross-referenced to. In the case of authors who have left or entered the UK during the relevant period, we are generous about including the papers, and in particular if an author leaves the UK while his/her paper is working through the system, it continues to be listed.

Abbreviations of the titles of journals/serials are normally taken from Zentralblatt, though for less commonly occurring journals, conference proceedings and books the style may vary. Following a suggestion recently, a list of abbreviations and the corresponding full titles of journals is included at the end, to help those unfamiliar with what a particular abbreviation refers to. There will be errors!

Where the Editor is aware of a link to a preprint version of an article (and the author has no objection) a link to that page is included. Maintenance of these links will be in the (closed) interval minimal to non-existent: they are used at your own risk. Use of these versions is likely to be subject to restrictions, e.g. that the version is used only for purposes of personal study and not for commercial purposes, and should not be reproduced further: if in any doubt, you should check with the author(s) of the paper involved before using such links. Preprint versions of a paper may well differ, often non-trivially, from any eventual version which appears in a journal (and there may be several competing versions of the preprint!). The copyright of an article rests with the author(s) unless they have conceded the copyright to (e.g.) a publisher. Some links may not work unless you, or your institution, has certain access rights. Similarly, where a valid DOI number has come to the Editor’s attention these are provided: again, accuracy cannot be guaranteed.

This list should not be taken as a complete record of all such publications during the period, and absence of listed papers for any individual should not be taken to imply absence of research activities.
Aalipour, G., Akbari, S., Cameron, P. J., Nikandish, R. and Shaveisi, F.
On the structure of the power graph and the enhanced power graph of a group.
Preprint.
http://arxiv.org/pdf/1603.04337

Aashikur Rahman Azim, M., Iliopoulos, C. S., Samiruzzaman, M. and Sohel Rahmann, M.
A Filter-Based Approach for Approximate Circular Pattern Matching. ISBRA2015 24-35
http://dx.doi.org/10.1007/978-3-319-19048-8_3

Abdullah, M., Bode, M. and Fountoulakis, N.

Abdullah, M., Bode, M. and Fountoulakis, N.
Local majority dynamics on preferential attachment graphs. WAW 2015.

Abért, M., Csikvári, P. and Hubai, T.
http://dx.doi.org/10.1007/s10955-015-1309-7

Abért, M. and Hubai, T.
http://dx.doi.org/10.1007/s00493-014-3066-7

Abreu, M., Labbate, D., and Sheehan, J.
http://arxiv.org/pdf/1510.07553

Abu Khzam, F. N., Feghali, C., and Müller, H.
Partitioning a Graph into Disjoint Cliques and a Triangle-free Graph. Discrete Appl. Math. 190 (2015), 1-12
http://arxiv.org/pdf/1403.5961

Acín, A., Duan, R., Roberson, D. E., Sainz, A. B. and Winter, A.
http://arxiv.org/pdf/1505.01265

Addario-Berry, L., Balle, B. and Perarnau, G.
Diameter and Stationary Distribution of Random r-out Digraphs. Preprint.

Affif Chaouche, F., Rutherford, C. G. and Whitty, R. W.
http://dx.doi.org/10.7151/dmgt.1818

Ahlberg, D., Griffiths, S., Morris, R. D. and Tession, V.
http://dx.doi.org/10.1016/j.aim.2015.09.005

Akbari, M., Gillespie, N. I. and Praeger, C. E.
Increasing the minimum distance of codes by twisting. Preprint.
http://arxiv.org/pdf/1511.07154

Akbari, S.
[see: Aalipour, G.]

Akhtar, M., Coates, T., Corti, A., Heuberger, L., Kasprzyk, A. M., Oneto, A., Petracci, A., Prince, T. and Tveiten, K.

Akhtar, M. and Kasprzyk, A. M.
http://dx.doi.org/10.1017/S0013091515000115
http://arxiv.org/pdf/1302.1152

Akrida, E. C., Gąsieniec, L., Mertzios, G. B. and Spirakis, P.
On Temporally Connected Graphs of small cost. WAOA 2015 84-96.
http://community.dur.ac.uk/george.mertzios/papers/Conf/Conf_temporally-connected_small-cost_proceedings.pdf

Akrida, E. C., Gąsieniec, L., Mertzios, G. B. and Spirakis, P.
http://community.dur.ac.uk/george.mertzios/papers/Jour/Jour_Ephemeral_networks.pdf

Akrida, E. C., Gąsieniec, L., Mertzios, G. B. and Spirakis, P.
On Temporally Connected Graphs of Small Cost. WAOA 2015 84-96
http://dx.doi.org/10.1007/978-3-319-28684-6_8

Akrida, E. C. and Spirakis, P.
On Verifying and Maintaining Connectivity of Interval Temporal Networks. ALGOSENSORS 2015 142-154
http://dx.doi.org/10.1007/978-3-319-28472-9_11

Aksoy Yazıcı, E., Murphy, B., Rudnev, M. and Shkredov, I.
http://arxiv.org/pdf/1512.06613

Alatabbi, A., Dakykin, J. W., and Rahman, M. S.
http://arxiv.org/pdf/1506.06983

Alatabbi, A., Dakykin, J. W., Rahman, M. S. and Smyth, W. F.
http://dx.doi.org/10.3233/FI-2015-1228

Alatabbi, A., Dakykin, J. W., Rahman, M. S. and Smyth, W. F.
http://arxiv.org/pdf/1507.07038

Enhanced Covers of Regular & Indeterminate Strings using Prefix Tables. Preprint.
http://arxiv.org/pdf/1506.06793

Albert, M.H., and Brignall, R.
Albert, M. H., Atkinson, M. D. and Claesson, A.
http://dx.doi.org/10.4310/JOC.2015.v6.n1.a1
http://arxiv.org/pdf/1308.3262

Albert, M. H., Brignall, R., Ruškuc, N. and Vatter, V.

Aldridge, M., Baldassini, L. & Gunderson, K.
http://dx.doi.org/10.1007/s10878-015-9951-1
http://arxiv.org/pdf/1410.1826

Aldridge, M., Johnson, O. and Scarlett, J.
Improved group testing rates with constant column weight designs. Preprint.

Aliev, I.
http://dx.doi.org/10.1016/j.orl.2015.01.008
http://arxiv.org/pdf/1404.6967

Aliev, I., Bassett, R., De Loera, J. A. and Louveaux, Q.
A Quantitative Doignon-Bell-Scarf Theorem, Preprint.

Aliev, I., De Loera, J. A. and Louveaux, Q.
Parametric Polyhedra with at least $k$ Lattice Points: Their Semigroup Structure and the $k$-Frobenius Problem. Preprint.
http://arxiv.org/pdf/1409.5259

Allen, P., Böttcher, J., Hän, H., Kohayakawa, Y. and Person, Y.
http://arxiv.org/pdf/1402.0984

Allen, P., Böttcher, J., Hladký, J. and Piguet, D.
http://dx.doi.org/10.4153/CJM-2014-030-6
http://arxiv.org/pdf/1403.3837v2

Allen, P., Böttcher, J., Griffiths, S., Kohayakawa, Y. and Morris, R. D.
Chromatic thresholds in sparse random graphs. Preprint.
http://arxiv.org/pdf/1508.03875

Allen, P., Böttcher, J., Griffiths, S., Kohayakawa, Y. and Morris, R. D.
http://arxiv.org/pdf/1508.03870

Allen, P., Böttcher, J., Kohayakawa, Y. and Roberts, B.
Triangle-free subgraphs of random graphs. Preprint.
http://arxiv.org/pdf/1507.05226

Alpers, A. and Larman, D. G.
http://dx.doi.org/10.1112/blms/bdu111

Alqahtani, H. M. and Erlebach, T.
http://dx.doi.org/10.1007/978-3-319-29516-9_2

Alstrup, S., Georgakopoulos, A., Rotenberg, E. and Thomassen, C.
A Hamiltonian Cycle in the Square of a 2-connected Graph in Linear Time. Preprint
https://homepages.warwick.ac.uk/~maslar/LinearTimeFleischner.pdf

Amato, D. and Evans, D. M.
http://dx.doi.org/10.1016/j.jctb.2015.03.003
http://arxiv.org/pdf/1405.2761

Amini, O., Devroye, L, Griffiths, S. and Olver, N.
http://arxiv.org/pdf/1411.4426

Anabanti, C. S. and Hart, S. B.
On a conjecture of Street and Whitehead on locally maximal product-free sets. Preprint.
http://arxiv.org/pdf/1506.02430

Anabanti, C. S. and Hart, S. B.
A note on filled groups, Preprint.
http://arxiv.org/pdf/1512.05117

Anderson, I.

Ando, H., Estrada, E. and Vargas-Estrada, E.
http://dx.doi.org/10.1103/PhysRevE.92.052809
http://arxiv.org/pdf/1507.05881v1

André, J, Araújo, J. and Cameron, P. J.
The classification of partition homogeneous groups with applications to semigroup theory. J. Algebra 452 (2016) 288-310
http://dx.doi.org/10.1016/j.jalgebra.2015.12.025 ;
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List of journal abbreviations for BCB.

This is a list of the abbreviations used for some of the journals we have recently encountered in the Bulletin. They are taken, for consistency, from Zentralblatt. There are journals which we cannot find a “standard” journal abbreviation for, in such cases usually the name of the journal is spelled out in full when referring to it. Accuracy is, as usual, not guaranteed!

Some further journals will be added to the list in future.

ACM J. Exp. Algorithm. - The ACM Journal of Experimental Algorithmics
ACM Trans. Algorithms - ACM Transactions on Algorithms
Acta Arith. – Acta Arithmetica
Acta Inf – Acta Informatica
Adv. Geom. – Advances in Geometry
Adv. Math. – Advances in Mathematics
Adv. Math. Commun. – Advances in Mathematics of Communications
Aequationes Math. - Aequationes Mathematicae.
Algebra Colloq. – Algebra Colloquium
Algebr. Represent. Theory – Algebras and Representation Theory
Algebra Univers. – Algebra Universalis.
Algorithmica – Algorithmica
Algorithms. Comb. – Algorithms and Combinatorics
Anal. PDE. - Analysis and PDE
Ann. Comb. – Annals of Combinatorics
Ann. Probab. – Annals of Probability
Arch. Math. Logic – Archive for Mathematical Logic
Arch. Math. – Archiv der Mathematik
Ars. Comb. – Ars Combinatoria.
Ars Math. Contemp. - Ars Mathematica Contemporanea
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<td>Commun. Algebra</td>
<td>Communications in Algebra</td>
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<tr>
<td>Comput. Complexity</td>
<td>Computational Complexity</td>
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<tr>
<td>Congr. Numerantium</td>
<td>Congressus Numerantium</td>
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<td>Contemp. Math.</td>
<td>Contemporary Mathematics</td>
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<td>Des. Codes. Cryptography</td>
<td>Designs, Codes and Cryptography</td>
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<tr>
<td>Discrete Anal.</td>
<td>Discrete Analysis</td>
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<tr>
<td>Discrete Contin. Dyn. Syst.</td>
<td>Discrete and Continuous Dynamical Systems</td>
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<td>Discrete Math.</td>
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<td>Discrete Optim.</td>
<td>Discrete Optimization</td>
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<td>Discuss. Math. Graph Theory.</td>
<td>Discussiones Mathematicae. Graph Theory</td>
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<tr>
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<td>The Electronic Journal of Combinatorics</td>
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<tr>
<td>Eur. J. Comb.</td>
<td>European Journal of Combinatorics</td>
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<td>Exp. Math.</td>
<td>Experimental Mathematics</td>
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<tr>
<td>Finite Fields Appl.</td>
<td>Finite Fields and their Applications</td>
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<td>Forum. Math.</td>
<td>Forum Mathematicum</td>
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<tr>
<td>Forum Math. Sigma</td>
<td>Forum of Mathematics Sigma</td>
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<tr>
<td>Funct. Approximatio.</td>
<td>Functiones et Approximatio. Commentarii Mathematicii</td>
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<td>Fundamenta Mathematicae</td>
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Fundam. Inform. – Fundamentae Informaticae
Geom. Dedicata. – Geometriae Dedicata
Geom. Funct. Anal. – Geometric and Functional Analysis
Graphs Comb. – Graphs and Combinatorics
Groups Complex. Cryptol. - Groups, Complexity, Cryptology
Groups Geom. Dyn. - Groups, Geometry, and Dynamics
Indian J. Math. - Indian Journal of Mathematics
Inf. Comput. – Information and Computation
Inf. Sci – Information Sciences
Innov. Incidence Geom. - Innovations in Incidence Geometry
Int. J. Algebra Comput. - International Journal of Algebra and Computation
Int. J. Comb. - International Journal of Combinatorics
Int. J. Game Theory - International Journal of Game Theory
Int J. Number Theory - International Journal of Number Theory
Int. Math. Forum - International Mathematical Forum
Internet Math. – Internet Mathematics
Invent. Math. – Inventiones Mathematicae
J. ACM. – Journal of the Association for Computing Machinery
J. Appl. Probab.- Journal of Applied Probability
J. Classif. - Journal of Classification
J. Comb – Journal of Combinatorics
J. Comb. Optim. – Journal of Combinatorial Optimization