

## Logic List Mailing Archive

# 18th International Workshop on Combinatorial Algorithms (IWOCA 2007), Newcastle (Australia), 5-9 Nov 2007

Call for Papers

18th International Workshop on Combinatorial Algorithms  
<http://www.eng.newcastle.edu.au/~iwoca2007>  
5 ~V 9 November 2007

Venue: Rafferty's Resort, Lake Macquarie, NSW 2281 Australia

Host: School of Electrical Engineering & Computer Science  
University of Newcastle  
<http://www.newcastle.edu.au/school/elec-eng-comp-sci/>

Sponsors: The University of Newcastle, Australia

After 17 years as a successful regional conference, AWOCA (Australasian Workshop on Combinatorial Algorithms) is going global as IWOCA! AWOCA has been held at many venues in Australia (last year at Ayers Rock, a world heritage site), once in Korea, three times in Indonesia. At the Ayers Rock conference, in view of the increased recognition of AWOCA, the participants decided unanimously to upgrade, to focus more on high-quality presentations, but also on problems sessions, and to have the Proceedings published by a well-known academic publisher. To provide more flexibility in venue for the upgraded conference, and to make its results more widely accessible, it has also been renamed. All submissions to IWOCA will be refereed by three referees selected by Program Committee members. IWOCA 2007 will be held in the vicinity of Newcastle at Rafferty's Resort, Lake Macquarie. Newcastle started life as a steel town, but has been transformed into a charming small seaside city close to the renowned Hunter Valley wine-growing area and a centre of picturesque resort towns on the New South Wales coast. The fourth day of the workshop will be taken up with an optional tour of spectacular scenic areas, arts-and-crafts centres, and some of the finest wineries in the world. IWOCA 2007 focuses on current important research in combinatorial algorithms, featuring both expository talks and problems sessions. For further details on problem submission, please access:  
<http://www.eng.newcastle.edu.au/~iwoca2007>  
and see the attached letter from Jamie Simpson, Problems Chair.

IWOCA topics include (but are not limited to) the following:

- Algorithms and Data Structures
- Complexity Theory
- Graph Theory & Combinatorics
- Combinatorial Optimization
- Cryptography & Information Security
- Algorithms on Strings & Graphs
- Graph Drawing & Labelling
- Computational Algebra & Geometry

Computational Biology  
Communications Networks  
Probabilistic & Randomised Algorithms  
New Paradigms of Computation

#### INVITED SPEAKERS

Jerrold Griggs, University of South Carolina, USA  
Jan Kratochvil, Charles University, Czech Republic  
Gadi Landau, University of Haifa, Israel  
Moshe Lewenstein, Bar Ilan University, Israel  
Brendan McKay, Australian National University, Australia  
Takao Nishizeki, Tohoku University, Japan  
Kristina Vuskovic, University of Leeds, UK

#### STEERING COMMITTEE

Costas Iliopoulos, King's College London, UK  
Mirka Miller, University of Ballarat, Australia  
Bill Smyth, McMaster University, Canada & Curtin University, Australia

#### ORGANIZING COMMITTEE

Mousa Alfalayleh, The University of Newcastle, Australia  
Ljiljana Brankovic, The University of Newcastle, Australia  
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Alexandre Mendes, The University of Newcastle, Australia  
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Huilin Ye, The University of Newcastle, Australia

#### PROGRAM COMMITTEE

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Kun-Mao Chao, National Taiwan University, Taiwan  
Arbee L. P. Chen, National Chengchi University, Taiwan  
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Charlie Colbourn, Arizona State University, USA  
Derek Corneil, University of Toronto, Canada  
Jackie Daykin, Royal Holloway College, UK  
Frank Dehne, Carleton University, Canada  
Diane Donovan, University of Queensland, Australia  
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Andrei Kelarev, University of Tasmania, Australia  
Jan Kratochvil, Charles University, Czech Republic  
Selda Kucukcifci, Koc University, Turkey  
Gadi Landau, University of Haifa, Israel  
Thierry Lecroq, University of Rouen, France  
Jimmy Ho Man Lee, Hong Kong University, Hong Kong  
Paulette Lieby, NICTA, Australian National University, Australia  
Yuqing Lin, The University of Newcastle, Australia  
Stefano Lonardi, University of California Riverside, USA  
Prabhu Manyem, University of Ballarat, Australia  
Laurent Mouchard, University of Rouen, France  
Gonzalo Navarro, University of Chile, Chile  
Takao Nishizeki, Tohoku University, Japan

Kunsoo Park, Seoul National University, Korea  
Andrzej Proskurowski, University of Oregon, USA  
Bharati Rajan, Loyola College, India  
Rajeev Raman, University of Leicester, UK  
Wojciech Rytter, Warsaw University, Poland  
Zdenek Ryacek, University of West Bohemia, Czech Republic  
Joe Ryan, University of Ballarat, Australia  
Jamie Simpson, Curtin University, Australia (Problems Chair)  
Jozef Sirán, University of Auckland, New Zealand  
Michiel Smid, Carleton University, Canada  
Bill Smyth, McMaster University, Canada & Curtin University, Australia  
(Co-Chair)  
Kathleen Steinhöfel, King's College London, UK  
Anne Street, University of Queensland, Australia  
Athanasios Tsakalidis, University of Patras, Greece  
Gabriel Valiente, Technical University of Catalonia, Spain  
Koichi Wada, Nagoya Institute of Technology, Japan  
Sue Whitesides, McGill University, Canada  
Chee Yap, New York University, USA

#### SUBMISSION

Submissions should be submitted on or before Monday 16 July 2007 (Sydney time) in postscript or PDF format at:  
<http://www.eng.newcastle.edu.au/~iwoca2007>

Each submission should be an "extended abstract" of at most 10 pages in length, a limit that is strictly enforced. Simultaneous submission to other conferences with published proceedings is not allowed.

LNCS format should be used: for further instructions and style files, please see the IWOCA website: <http://www.iwoca.org/>.

After refereeing has taken place, notifications to authors will be sent by Monday 3 September 2007. Camera-ready copies of accepted papers are due by Monday 17 September 2007.

#### PUBLICATION

In the past accepted papers at AWOCA have been published by the host university. This year, the IWOCA Proceedings will be published by College Publications (<http://www.collegepublications.co.uk>) and be made available world-wide. Thus for the first time conference papers will find a universal audience among researchers in combinatorial algorithms.

In order that an accepted paper should qualify for publication, at least one author will be required to register for IWOCA 2007 and guarantee that the paper will be presented. For further information, see <http://www.iwoca.org> or contact one of the following:

IWOCA2007 ([iwoca2007@cs.newcastle.edu.au](mailto:iwoca2007@cs.newcastle.edu.au))  
Ljiljana Brankovic ([Ljiljana.Brankovic@newcastle.edu.au](mailto:Ljiljana.Brankovic@newcastle.edu.au))  
Bill Smyth ([smyth@mcmaster.ca](mailto:smyth@mcmaster.ca))

#### PROBLEMS SUPPLEMENT

Dear colleague,

The program for IWOCA 2007 will include Problems Sessions for which we need

unsolved problems. If you have anything suitable (related to combinatorial algorithms), please send it to me at [simpson@maths.curtin.edu.au](mailto:simpson@maths.curtin.edu.au)

Your submission should contain a clear statement of your problem with your name and affiliation, and may include motivation, known related results, references, partial solutions, and so on. A typical submission might range from 20 to 500 words, though these bounds are not strict and of course depend on the amount of relevant material available.

I will collate the problems and circulate them a few weeks before the meeting. This will give people time to study them and, perhaps, contribute to their solution at the workshop.

Afterwards the problems will be kept on the permanent IWOCA website, so that they can be reconsidered at future IWOCAs. Any progress made will also appear on the website. A similar arrangement is used by the Western Number Theory Conference in the USA.

With best wishes.  
Jamie Simpson