

# INTERNATIONAL WORKSHOP ON OPTICAL SUPERCOMPUTING (OSC'08): Deadline extension

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--- CALL FOR PAPERS ---

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INTERNATIONAL WORKSHOP ON OPTICAL SUPERCOMPUTING (OSC'08): Deadline extension  
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August 25-29, 2008, Vienna, Austria  
In conjunction with the 7th International Conference on Unconventional Computation (UC'08)

WEB PAGE:

<http://www.cs.ubbcluj.ro/~moltean/osc2008>  
<http://www.cs.bgu.ac.il/~osc2008>

FORUM:

<http://groups.google.com/group/optical-supercomputing?hl=en>

SCOPE

OCS, the International Workshop on Optical SuperComputing, is a new annual forum for research presentations on all facets of optical computing for solving hard computation tasks. Optical computing devices have the potential for being the very next computing infrastructure. Given the frequency limitations and cross-talk phenomena, as well as soft-errors of electronic devices on one hand, and the natural parallelism of optical computing devices, as well as the advance in fiber optics and optical switches on the other hand make optical computing commercial-able. Research contributions to the theory, design, specification, analysis, implementation, or application of optical supercomputers are

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Topics of interest include, but are not limited to:

- Design of optical computing devices
- Electro-optics devices for interacting with optical computing devices
- Practical implementations
- Analysis of existing devices and case studies
- Optical and laser switching technologies
- Applications and algorithms for optical devices
- Alpha practical, X-Rays and nano-technologies for optical computing

#### IMPORTANT DATES

Submission deadline (extended): May 12, 2008

Acceptance notification: June 1, 2008

Camera ready: June 15, 2008

Workshop: August 25–29, 2008

#### PUBLICATION

The workshop POST-proceedings will be published by LNCS Springer Verlag.

Selected best papers will be published in a special issue of the Natural Computing journal.

Also, we plan to have an associated peer reviewed feature issue in Journal of the Optical Society of America A (JOSA A), and we have made preliminary inquiries concerning this.

#### ORGANIZATION

Shlomi Dolev, Ben-Gurion University  
Mihai Oltean, Babes-Bolyai University  
Wolfgang Osten, Stuttgart Universitat  
Tobias Haist, Stuttgart Universitat

#### PROGRAM COMMITTEE

Hossin Abdeldayem (NASA-Goddard, USA)  
H. John Caulfield (Fisk University, USA)  
Shlomi Dolev (Chair) (Ben-Gurion University, Israel)  
Hen Fitoussi (Ben-Gurion University, Israel)

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Joseph W. Goodman (Stanford University, USA)  
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Tobias Haist (Co-Chair) (Stuttgart Universitat, Germany)  
Lene Hau (Harvard University, USA)  
Jeremy O'Brien (University of Bristol, UK)  
Mihai Oltean (Co-Chair) (Babes-Bolyai University, Romania)  
Alastair McAulay (Lehigh University, USA)  
Stephane Messika (LRI, France)  
John Reif (Duke University, USA)  
Joseph Rosen (Ben-Gurion University, Israel)  
Natan T. Shaked (Ben-Gurion University, Israel)  
Damien Woods (University College Cork, Ireland)

Best regards,  
Mihai Oltean  
<http://www.cs.ubbcluj.ro/~moltean>