

# INTERNATIONAL WORKSHOP ON OPTICAL SUPERCOMPUTING (OSC'08)

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*Source:* <http://sci.tech-archive.net/Archive/sci.physics.research/2008-04/msg00075.html>

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  - *Date:* Sat, 12 Apr 2008 13:30:48 +0000 (UTC)
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[Moderator's note: I have set followups to the poster. -P.H.]

---- CALL FOR PAPERS ----

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INTERNATIONAL WORKSHOP ON OPTICAL SUPERCOMPUTING (OSC'08)  
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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 solicited.

Topics of interest include, but are not limited to:

-Design of optical computing devices

## INTERNATIONAL WORKSHOP ON OPTICAL SUPERCOMPUTING (OSC'08)

- 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: May 1, 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

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Tobias Haist, Stuttgart Universitat

### PROGRAM COMMITTEE

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Best regards,  
Mihai Oltean  
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