

# Call for Papers: The 2008 International Conference on Scientific Computing (CSC'08), USA, July 2008

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## CALLFORPAPERS

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The 2008 International Conference on  
Scientific Computing  
CSC'08  
Date and Location: July 14-17, 2008, Las Vegas, USA

You are invited to submit a full paper for consideration.  
All accepted papers will be published in the conference proceedings/  
book.

SCOPE: Topics of interest include, but are not limited to, the  
following:

- O Inversion problems
- O Computational physics
- O Computational chemistry
- O Mathematical modeling
- O Computational models
- O Computational fluid dynamics
- O Monte Carlo methods and applications
- O Supercomputing and scientific computing
- O Scientific visualization
- O Numerical methods and simulation
- O Ordinary and partial differential equations
- O Molecular dynamics
- O Stochastic differential equations
- O Optimization and optimal control
- O Finite element methods
- O Software architectures for scientific computing
- O Scientific computing and supercomputing benchmark design
- O domain decomposition methods
- O Seismic data processing
- O Multi-level and Multi-grid methods
- O Iterative methods
- O Krylov methods

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- O Level-set methods
- O Atmospheric science
- O Integral equations
- O Operational research
- O Dynamical systems
- O Generalized eigen-problems
- O Coupled problems
- O Nonsymmetric solvers
- O Nonlinear systems and eigenvalue solvers
- O Computational electromagnetics
- O Computational electrodynamics
- O Numerical linear algebra
- O Approximation theory
- O Mathematics and circuit simulation
- O Mathematical software tools
- O Splines and wavelets and applications
- O Engineering problems and emerging applications
- O Applications of scientific computing in physics, mechanics, chemistry, biology, environmental and hydrology problems, production scheduling, automotive industry, ...

SUBMISSION OF PAPERS:

Prospective authors are invited to submit their full paper (about 5 to 7 pages – single space, font size of 10 to 12) to Prof. H. R. Arabnia by Feb. 25, 2008 (hra@xxxxxxxxxxx). email submissions in MS Doc or PDF formats are preferable. All reasonable typesetting formats are acceptable (later, the authors of accepted papers will be asked to follow a particular typesetting format to prepare their papers for publication.)

The length of the Camera-Ready papers (if accepted) will be limited to 7 (IEEE style) pages. Papers must not have been previously published or currently submitted for publication elsewhere. The first page of the draft paper should include: title of the paper, name, affiliation, postal address, and email address of each author as well as the name of the conference the paper is being submitted to (ie, CSC'08). The first page should also identify the name of the Contact Author and a maximum of 5 topical keywords that would best represent the content of the paper.

Each paper will be refereed by two experts in the field who are independent of the conference program committee. The referees'

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evaluations will then be reviewed by one member of the program committee who will recommend a decision to the co-chairs of the track.

The track chairs will make the final decision. Lastly, the Camera-Ready papers will be reviewed by one member of the program committee.

### CONFERENCE SPONSORS:

The list of co-sponsors of CSC'08 will soon be finalized which will include research laboratories and centers affiliated with major institutions. The reputation and caliber of the co-sponsors of the 2008 conference will be comparable to the 2007 offering of the conference which included:

Academic Co-sponsors: Massachusetts Institute of Technology (MIT) Media Lab., MIT + Computational Biology and Functional Genomics Lab., Harvard University + Statistical Genomics and Computational Biology Lab., Dept. of Statistics, Harvard University + Biomedical Cybernetics Lab., Harvard University + Texas Advanced Computing Center, University of Texas at Austin + Statistical and Computational Intelligence Lab., Purdue University + Center for Computational Biology and Bioinformatics, Indiana University and Purdue University Indianapolis (IUPUI) + University of Iowa's Medical Imaging HPC Lab. + BioMedical Informatics and Bio-Imaging Lab. of Georgia Institute of Technology and Emory University + Intelligent Data Exploration and Analysis Lab., University of Texas at Austin + Statistical Genetics Research Group of Columbia University, New York + Institute for Informatics Problems of the Russian Academy of Sciences + University of North Dakota (Grand Forks, North Dakota).

Corporate Co-sponsors: Google, Intel, and Salford Systems.  
Other Co-sponsors: Int'l Technology Inst. (ITI), GridToday, HPCwire, HPC Software Inc., STEM Education Society, and Hodges' Health.

### MEMBERS OF PROGRAM AND ORGANIZING COMMITTEE:

The program committee includes members of the chapters of World Academy of Science (chapters: supercomputing; scientific computing; AI; imaging science; databases; simulation; software engineering; embedded systems; internet and web technologies; communications;

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computer security; and bioinformatics.) The names of the members of the program committee will soon be posted on the web site. Those interested in joining the program committee should email Prof. H. R. Arabnia (hra@xxxxxxxxxx) the following information:  
Name,  
affiliation and position, complete mailing address, email address, tel/fax numbers, a short biography together with research interests.

For the list of the members of program committee of CSC'07, refer to:

<http://www.world-academy-of-science.org/worldcomp07/ws/CSC07/committee>

Many members of the program committee include renowned leaders, scholars, researchers, scientists and practitioners of the highest ranks; many are directors of research laboratories, fellows of various societies, heads/chairs of departments, deans and provosts.

### IMPORTANT DATES:

January 16, 2008: Proposals for organizing/chairing sessions/  
workshops

Feb. 25, 2008: Submission of papers (about 5 to 7 pages)

March 25, 2008: Notification of acceptance

April 25, 2008: Camera-Ready papers and Registration due

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URL: <http://www.world-academy-of-science.org/sites/worldcomp08/ws/conferences/csc08>

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