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ACM Symposium on Applied Computing-SAC 2005

Special Track on Distributed Systems and Grid Computing

Santa Fe, New Mexico, USA

March 13-17, 2005

<http://www.cslab.ece.ntua.gr/sac05-dsgc>

CALL FOR PAPERS

A special track on Distributed Systems and Grid Computing will be held in ACM SAC'05. This track aims to be a forum for scientists, engineers and practitioners in academia, industry and research institutes to share technical ideas, experiences and results and to present their latest findings in any aspects of Distributed Systems and Grid Computing. The DSGC track will emphasize the design, architecture and software of parallel/distributed systems and Grid computing with their scientific and engineering applications.

Authors are invited to submit original manuscripts that demonstrate current research in all areas of parallel/distributed systems and Grid computing. The track solicits novel papers on a broad range of topics, including but not limited to:

- Software environments, middleware, compilers, and programming language support for distributed systems and Grid computing
- Parallel and distributed architectures
- Parallel and distributed algorithms
- Optimizing compilers for high-performance computing
- High performance Java
- Load sharing and balancing
- Task mapping and job scheduling
- Resource allocation and management
- Architecture and operating system support for parallel systems
- Supercomputing applications
- Scalable servers
- Application studies using distributed systems and Grid computing
- Clusters
- Data Grids
- Peer to Peer (desktop PC Grids)
- High performance I/O and file systems
- Security, reliability, configuration, policy, and management issues in Grids
- Performance analysis, modeling, simulation, and prediction
- Design or use of commercial Grid systems

Original papers from the above-mentioned or other related areas will be considered. This includes three categories of submissions: 1) original and unpublished research; 2) reports of innovative computing applications in the arts, sciences, engineering, business, government, education and industry; and 3) reports of successful technology transfer to new problem domains. Each submitted paper will be fully refereed and undergo a blind review process by at least three referees. Accepted papers in all categories will be published in the ACM SAC'05 proceedings.

Submit your paper electronically to <http://www.cslab.ece.ntua.gr/sac05-dsgc> in PDF or postscript (see the track web page for details). The author(s) name(s) and address(es) must not appear in any cover page or in the body of the paper, and self-reference should be in the third person. This is to facilitate blind review. Because the review process is blind, authors' names and affiliations should appear only on the electronic submission form. The final version (camera-ready) of the accepted papers should be submitted in PDF format so that they can be included in the proceedings as well as in the ACM Digital Library.

For more information contact: sac05-dsgc@cslab.ece.ntua.gr

Important Dates

Paper Due: September 3, 2004 --extended to September 7th, 2004
Author Notification: October 15, 2004
Camera-Ready Paper Due: November 5, 2004

Track Program Chairs

Robert van Engelen, Florida State University, USA
Madhu Govindaraju, Binghamton University, USA
Nectarios Koziris, National Technical University of Athens, Greece
Kleanthis Psarris, The University of Texas at San Antonio, USA

About the ACM SAC 2005 Conference

For the past nineteen years, the ACM Symposium on Applied Computing has been a primary gathering forum for applied computer scientists, computer engineers, software engineers, and application developers from around the world. SAC 2005 is sponsored by the ACM Special Interest Group on Applied Computing, and is hosted by New Mexico Institute of Mining and Technology, Socorro, NM, USA.

For more information about the ACM SAC'05 conference, please visit <http://www.acm.org/conferences/sac/sac2005/>

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