



CALL FOR PARTICIPATION

2008 ACM International Conference on Computing Frontiers



May 5 - 7, 2008, Ischia, Italy

Sponsored by ACM - SIGMICRO

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The increasing needs of present and future computation-intensive applications have stimulated research in new and innovative approaches to the design and implementation of high-performance computing systems. These challenging boundaries between state of the art and innovation constitute the computing frontiers, which must push forward and provide the computational support required for the advancement of all science domains and applications. This conference focuses on a wide spectrum of advanced technologies and radically new solutions, and is designed to foster communication between the various scientific areas and disciplines involved.

The technical program will include 3 keynote talks, a poster session on innovative computing and technical sessions covering all areas of innovative computing systems that extend the current frontiers of computer science and engineering and that will provide advanced systems for current and future applications. The conference also includes two workshops and a special session on FP7 Computing Systems Projects.

Keynote Talks

Keshav Pingali, UT Austin, Data-parallel Abstractions for Irregular Programs

Valentina Salapura, IBM Watson, Scaling Up Next Generation Supercomputers

Raffaele Tripiccione, U Ferrara, JANUS: Reconfigurable High-Performance Computing for Physics

Technical Sessions

- Innovative Computing Platforms (Cell, GPGPU, FPGAs)
- Programming Models
- High-Performance Computing
- Microarchitecture for Low Power, High Reliability and New Application Domains
- Innovative Design
- Innovative Compilation Techniques
- Innovative Systems
- Poster Session

Workshops and Special Session

Workshop on "Memory Access on Future Processors: A Solved Problem?"

Workshop on "Radiation Effects and Fault Tolerance in Nanometer Technologies"

A Special Session on the European Union's Seventh Framework FP7 Computing Systems Projects will allow researchers to present and discuss their research results at Computing Frontiers 2008.

Important Dates

Early registration deadline: April 4, 2008

Conference hotel rate available until April 18, 2008

For more information visit the conference web site at <http://www.computingfrontiers.org>

