



# PDP 2010

*18th Euromicro International Conference on  
Parallel, Distributed and Network-Based Processing*

**Pisa, 17-19 Feb 2010**

## **Call for Papers**

We invite you to consider submitting papers to the 18th Euromicro International Conference on Parallel, Distributed, and Network-Based Processing, that will be held at the Dept. of Computer Science, University of Pisa, Italy from 17th to 19th of February, 2010.

Parallel, Distributed, and Network-Based Processing has undergone impressive change over recent years. New architectures and applications have rapidly become the central focus of the discipline. These changes are often a result of cross-fertilisation of parallel and distributed technologies with other rapidly evolving technologies such as telecommunications and multimedia. It is of paramount importance to review and assess these new developments in comparison with recent research achievements in the well-established areas of parallel and distributed computing, from industry and the scientific community.

The PDP 2010 aims to provide a forum for the presentation of these and other issues through original research presentations and to facilitate the exchange of knowledge and new ideas at the highest technical level. Topics of interest include, but are not restricted to:

- **Distributed Systems:** Distributed databases, distributed object-oriented systems, distributed operating systems, heterogeneous distributed systems, distributed algorithms, distributed shared memory systems
- **Network-based Computing:** Web computing, cluster computing, cloud computing, computational grids, data grids, semantic grid, mobile agents, distributed web services, security in distributed systems
- **Parallel Computer Systems:** massively parallel machines, interconnection networks, embedded parallel and distributed systems, fault-tolerance, memory organization, support for parallel I/O, multi/many core systems, GPU and FPGA based parallel systems
- **Models and Tools for Parallel Programming Environments:** performance prediction and analysis, simulation, knowledge-based parallel program development, visualization tools
- **Advanced Applications:** multi-disciplinary applications, parallel databases, computations over irregular domains, numerical applications with multi-level parallelism, real time distributed applications, distributed business applications
- **Languages, Compilers and Runtime Support Systems:** task and data parallel languages, functional and logic languages, object-oriented languages, dependability issues, scheduling and load balancing, task and object migration

Furthermore, special sessions will address upcoming novel topics. Proceedings will be published by IEEE Computer Society. Authors of accepted papers are expected to register and present their papers at the Conference.

## **Venue**

PDP 2009 will take place at the Dept. of Computer Science of the University of Pisa, one of the most ancient university in Italy, with the most ancient Computer Science Dept. in Italy. We invite you to submit your papers and to join the conference in Pisa, the town of Galileo and of the leaning tower.

## **Paper submission**

Prospective authors should submit a full paper not exceeding 5000 words in length and including a 150-200 word abstract. To facilitate an anonymous reviewing process, the first page of the paper should contain only the title and abstract; moreover, the name of the authors of the paper must not appear in the reference section.

## **Important dates**

Deadline for paper submission:	July, 20th, 2009
Acceptance notification:	October, 5th, 2009
Camera ready paper due:	October, 30th, 2009
Conference:	February, 17-19th, 2010

## **Program Co-Chairs:**

Marco Danelutto, University of Pisa  
Tom Gross, Bauhaus-University Weimar  
Julien Bourgeois, University of Franche-Comte