CfP: 24th Euromicro International Conference on Parallel, Distributed, and Network-Based Processing (PDP 2016)

Parallel, Distributed, and Network-Based Processing has undergone impressive changes over recent years. New architectures and applications have rapidly become the central focus of the discipline. These changes are often a result of cross-fertilization of parallel and distributed technologies with other rapidly evolving technologies. It is of paramount importance to review and assess these new developments in comparison with recent research achievements in well-established areas of parallel and distributed computing from industry and the scientific community. PDP 2016 will provide a forum for the presentation of these and other issues through original research presentations and will facilitate the exchange of knowledge and new ideas at the highest technical level.

Topics of interest include, but are not restricted to:

- Parallel Computing: massively parallel machines; embedded parallel and distributed systems; multi- and many-core systems; GPU and FPGA based parallel systems; parallel I/O; memory organization.
- Distributed and Network-based Computing: Cluster, Grid, Web and Cloud computing; mobile computing; interconnection networks.
- Big Data: large scale data processing; distributed databases and archives; large scale data management; metadata; data intensive applications.
- Models and Tools: programming languages and environments; runtime support systems; performance prediction and analysis; simulation of parallel and distributed systems.
- Systems and Architectures: novel system architectures; high data throughput architectures; service-oriented architectures; heterogeneous systems; shared-memory and message-passing systems; middleware and distributed operating systems; dependability and survivability; resource management.
- Advanced Algorithms and Applications: distributed algorithms; multi-disciplinary applications; computations over irregular domains; numerical applications with multi-level parallelism; real-time distributed applications.
In addition, special sessions will address upcoming novel topics:

- GPU Computing and Many Integrated Core Computing
- Formal Approaches to Parallel and Distributed Systems
- Advances in High-Performance Bioinformatics, Systems and Synthetic Biology
- Security in Parallel, Distributed and Network-Based Computing
- Energy Efficient Management of Parallel Systems, Platforms, and Computations
- Cloud Computing on Infrastructure as a Service and its Applications
- High Performance Computing in Modelling and Simulation
- On-Chip Parallel and Network-Based Systems
- Multi-Core and Many-Core systems for Embedded Computing

IMPORTANT DATES

- Paper submission: 6 September 2015
- Acceptance notification: 19 October 2015
- Camera ready due: 10 November 2015

SUBMISSION OF PAPERS:

Acceptance: All submitted papers will be reviewed by three reviewers. Accepted papers will be sorted in two categories regular and short, based on their merit according to the reviews. Short papers will be given a shorter period for presentation.

Publication: All accepted papers, regular and short, will be included in the same volume, published by the Conference Publishing Services (CPS). The Final Paper Preparation and Submission Instructions will be published after the notification of acceptance. Authors of accepted papers are expected to register and present their papers at the Conference. Conference proceedings will be submitted to IEEE explore, CDSL, and for indexing among others, to DBLP, Scopus ScienceDirect, and ISI Web of Knowledge. Selected papers will be published in special issues of one or more journals.

Prospective authors should submit a full paper not exceeding 8 pages in the Conference proceedings format (double-column, 10pt) to the conference main track or to Special Sessions through the EasyChair conference submission system with an indication of the main track or the name of the Special Session.

Double-bind review: the paper should not contain authors' names and affiliations; in the reference list, references to the authors' own work entries should be substituted with the string "omitted for blind review".

ORGANIZERS:

General Co-chairs:

- Yiannis Cotronis, National and Kapodistrian University of Athens, Greece
ABOUT EUROMICRO

Euromicro is an international scientific organization advancing sciences and applications of Information Technology and Microelectronics. A major focus is on organizing conferences and workshops in Computer Science and Computer Engineering. Euromicro is a non-profit association founded in 1974 and annual conferences have taken place in more than 20 countries all over Europe. Find out more here

CfP: RTSS 2015 - Work in Progress Session
CfP: SPECIAL SESSION on Multi-Core and Many-Core systems for EMbedded Computing (MC)3 in 24th Euromicro PDP Conference