

# ISPDC 2013

## The 12th International Symposium on Parallel and Distributed Computing



### Symposium Chairs

Nicolae Tapus, University Politehnica of Bucharest, Romania  
Dan Grigoras, University College Cork, Ireland  
Rodica Potolea, Technical University of Cluj-Napoca, Romania  
Florin Pop, University Politehnica of Bucharest, Romania

### Steering Committee

Ioana Banicescu, Mississippi State University, USA  
Hans-Joachim Bungartz, Technische Universität München, Germany  
Valentin Cristea, University Politehnica of Bucharest, Romania  
Bertil Folliot, University of Paris, France  
Dan Grigoras, University College Cork, Ireland  
John Morrison, University College Cork, Ireland  
Traian Muntean, Aix Marseille University, France  
Dana Petcu, Western Univ. of Timisoara and e-Austria, Timisoara, Romania  
Marek Tudruj, Polish Acad. of Sciences and PJIIT, Warsaw, Poland

### Program Committee

Aron Ahmadi, King Abdullah University of Science and Technology, Saudi-Arabia  
Michael Bader, Munich Centre of Advanced Computing, Univ. Stuttgart, Germany  
Mark Baker, School of Systems Engineering, The University of Reading, UK  
Ioana Banicescu, Mississippi State University, USA  
Nik Bessis, University of Derby, UK  
Luc Bouge, ENS Cachan, Brittany, France  
Hans-Joachim Bungartz, Institut für Informatik, Garching, Germany  
Sabin-Corneliu Buraga, University A.I. Cuza Iasi, Romania  
Carsten Burstedde, Rheinische Friedrich-Wilhelms-Universität Bonn, Germany  
Alexandru Costan, INSA Rennes, France  
Yiannis Cotronis, University of Athens, Greece  
Valentin Cristea, University Politehnica Bucharest, Romania  
Ciprian Dobre, University Politehnica Bucharest, Romania  
Adina-Magda Florea, University Politehnica Bucharest, Romania  
Bertil Folliot, University Paris 6 France  
Wolfgang Gentzsch, DEISA, Germany  
Pawel Gepner, Intel Corporation Platform Architect for Europe Middle East & Africa  
George Gravvanis, Democritus University of Thrace, Greece  
Dan Grigoras, University College Cork, Ireland  
Daniel Grosu, Wayne State University, Detroit, USA  
Pierre Guillaume, Université de Rennes 1, France  
Todor Gurov, Inst. of Information and Communication Technologies, Bulgaria  
Ibrahim Hoteit, King Abdullah University of Science and Technology, Saudi-Arabia  
Ibrahim Hur, Çukurova Üniversitesi, Turkey  
Ali Jannesari, German Research School for Simulation Sciences, Germany  
Hai Jin, Huazhong University of Science and Technology, Wuhan, China  
Peter Kacsuk, MTA-SZTAKI, Budapest, Hungary  
Eleni Karatza, Aristotle University of Thessaloniki, Greece  
Thilo Kielmann, VU University (Vrije Universiteit), Amsterdam, The Netherlands  
Jacek Kitowski, AGH University of Science and Technology, Poland  
Andreas Knüpfer, Technische Universität Dresden, Germany  
Harald Köstler, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany  
Dieter Kranzlmüller, LUM, Ludwig-Maximilians-Universität München, Germany  
Alexey Lastovetsky, University College Dublin, Ireland  
Laurent Lefevre, INRIA, University of Lyon, France  
Christine Morin, INRIA, Rennes, France  
John Morrison, University College Cork, Ireland  
Ralf-Peter Mundani, Technische Universität München, Germany  
Ionel Muntean, Technical University of Cluj-Napoca, Romania  
Traian Muntean, Aix Marseille University, France  
Gabriel Neagu, ICI Bucharest, Romania  
Tobias Neckel, Technische Universität München, Germany  
Bogdan Nicolae, Ireland Research Lab, Dublin, Ireland  
Alex Nicolau, University of California, Irvine, USA  
Richard Olejnik, University of Science and Technology, Lille, France  
Can Özturan, Bogaziçi University, Turkey  
Dana Petcu, Western University of Timisoara, Romania  
Dirk Pflüger, Technische Universität München, Germany  
Florin Pop, University Politehnica Bucharest, Romania  
Rodica Potolea, Technical University of Cluj-Napoca, Romania  
Maria Potop-Gradinariu, LIP6, Paris, France  
Alper Sen, Bogaziçi University, Turkey  
Craig Sheridan, Flexiant Ltd, UK  
Emil Slushanschi, University Politehnica Bucharest, Romania  
Leonel Sousa, INESC-ID/IST, Technical University of Lisbon, Portugal  
Domenico Talia, Università della Calabria, Rende, Italia  
Nicolae Tapus, University Politehnica Bucharest, Romania  
Nam Thoai, Ho Chi Minh City University of Technology, Vietnam  
Carsten Trinitis, Technische Universität München, Germany  
Denis Trystram, IMAG, France  
Wanqing Tu, Glyndwr University, UK  
Marek Tudruj, Polish Academy of Science, Warsaw, Poland  
Rainer Unland, University of Duisburg-Essen, Germany  
Josef Weidendorfer, Technische Universität München, Germany  
Tobias Weinzierl, Technische Universität München, Germany

ISPDC 2013

<http://www.ispdc.org>

12th International Symposium on Parallel and Distributed Computing

June 27-29, 2013

University Politehnica of Bucharest, Romania

The mission of the 12th International Symposium on Parallel and Distributed Computing is to bring together researchers, engineers and practitioners involved in the development of new algorithms and architectures for parallel and distributed computing. The goal is to provide an interactive and friendly yet professional forum for original research contributions describing novel ideas, groundbreaking results and/or quantified system experiences. We cordially invite you to submit your contribution to ISPDC-2013. Topics include, but are not limited to:

### High Performance Computing and Large Scale Applications

- Tools and Environments for Parallel Program Analysis
- Scalable Algorithms and Applications
- Urban Networks and Applications, Vehicular Networks
- Parallel, Distributed and Mobile Databases

### Parallel Computing and Algorithms

- Parallel Programming Paradigms and APIs
- GPU Programming
- Bio-inspired Parallel Algorithms
- Algorithms, Models and Formal Verification

### System Architectures for Parallel and Distributed Computing

- Cluster Computing
- Grid and Cloud Computing
- Operating Systems for Parallel and Distributed Systems
- Distributed Systems Methodology and Networking

### Distributed Computing

- Collaborative Computing
- Peer-to-peer Computing
- Mobile and Ubiquitous Computing
- Mobile Cloud
- Web Services and Internet Computing
- Distributed Software Components
- Software Agents and Multi-agent Systems

### Quality Assurance in Parallel and Distributed Systems

- Task Scheduling and Load Balancing
- Fault Tolerance in Parallel and Distributed Systems
- Security in Parallel and Distributed Systems
- Performance Management in Parallel and Distrib. Systems

### Interactivity and Visualisation

- Real-time Distributed and Parallel Systems
- Real-time Visualisation of Massively Parallel Data
- Computational Steering on Parallel and Distributed Systems
- Visualisation on Parallel and Distributed Systems

You are invited to submit original papers of up to 8 pages, written in English and compliant with the IEEE standard (8.5"x11", two-column). The IEEE Computer Society Press will publish the proceedings. A best paper award will be presented to the paper(s) receiving the highest quality rating from the Program Committee and external reviewers (see website for details).

### Key dates:

- Submission of full papers: February 18, 2013
- Notification of authors: March 25, 2013
- Camera ready papers: April 25, 2013
- Early registration deadline: April 25, 2013
- ISPDC 2013 Symposium: June 27-30, 2013

