

Preface

Euro-Par is an annual, international conference on European ground, covering all aspects of parallel and distributed processing, ranging from theory to practice, from small to the largest parallel and distributed systems and infrastructures, from fundamental computational problems to full-fledged applications, from architecture, compiler, language and interface design and implementation to tools, support infrastructures, and application performance aspects. The Euro-Par conference itself is complemented by a workshop program, where workshops dedicated to more specialized themes, to cross-cutting issues, and to upcoming trends and paradigms can be easily and conveniently organized with little administrative overhead.

This year, 17 workshop proposals were submitted, and after a careful revision process, which was led by the workshop co-chairs, 13 workshops were accepted. One workshop had to be canceled later owing to a low number of submissions.

The workshops took place on the two days before the Euro-Par conference and the program included the following 12 workshops:

1. Big Data Management in Clouds (BIGDATA CLOUD)
2. Parallel and Distributed Computing Education for Undergraduate Students (EURO-EDUPAR)
3. Algorithms, Models, and Tools for Parallel Computing on Heterogeneous Platforms (HETERO PAR)
4. Large-Scale Distributed Virtual Environments (LSDVE)
5. On-Chip Memory Hierarchies and Interconnects: Organization, Management and Implementation (OMHI)
6. Parallel and Distributed Agent-Based Simulations (PADABS)
7. Performance Engineering for Large-Scale Graph Analytics (PELGA)
8. Reproducibility in Parallel Computing (REPPAR)
9. Resiliency in High-Performance Computing with Clouds, Grids, and Clusters (RESILIENCE)
10. Runtime and Operating Systems for the Many-Core Era (ROME)
11. UnConventional High Performance Computing (UCHPC)
12. Virtualization in High-Performance Cloud Computing (VHPC)

All workshops together received a total of 121 submissions from 34 different countries. Each workshop had an independent Program Committee, which was in charge of selecting the papers. The workshop papers received more than three reviews

per paper on average (403 reviews in total). Out of the 121 submissions, 67 papers were selected to be presented at the workshops.

The success of the Euro-Par workshops depends on the work of many individuals and organizations. We therefore thank all workshop organizers and reviewers for the time and effort that they invested. The Euro-Par vice-chair Luc Bougé provided guidance and support throughout the whole organizational process of the workshops. We would also like to express our sincere thanks to Springer for their help in publishing the proceedings.

Lastly, we thank all participants, panelists, and keynote speakers of the Euro-Par workshops for contributing to a productive meeting. It was a pleasure to organize and host the Euro-Par workshops 2015 in Vienna.



October 2015

Sascha Hunold

Euro-Par 2015: Parallel Processing Workshops

Euro-Par 2015 International Workshops, Vienna,

Austria, August 24-25, 2015, Revised Selected Papers

Hunold, S.; Costan, A.; Giménez, D.; Iosup, A.; Ricci, L.;

Gómez Requena, M.E.; Scarano, V.; Varbanescu, A.L.;

Scott, S.L.; Lankes, S.; Weidendorfer, J.; Alexander, M.

(Eds.)

2015, XLIII, 839 p. 323 illus. in color., Softcover

ISBN: 978-3-319-27307-5