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Euro-Par 2011: Parallel Processing Workshops

CCPI, CGWS, HeteroPar, HiBB, HPCVirt, HPPC,
HPSS, MDGS, ProPer, Resilience, UCHPC, VHPC
Bordeaux, France, August 29 – September 2, 2011
Revised Selected Papers, Part I

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Preface

Euro-Par is an annual series of international conferences dedicated to the promotion and advancement of all aspects of parallel and distributed computing. Euro-Par 2011 was the 17th edition in this conference series. Euro-Par covers a wide spectrum of topics from algorithms and theory to software technology and hardware-related issues, with application areas ranging from scientific to mobile and cloud computing. Euro-Par provides a forum for the introduction, presentation and discussion of the latest scientific and technical advances, extending the frontier of both the state of the art and the state of the practice.

Since 2006, Euro-Par conferences provide a platform for a number of accompanying, technical workshops. This is a great opportunity for small and emerging communities to meet and discuss focussed research topics. This 2011 edition established a new record: 12 workshops were organized. Among these workshops, we had the pleasure of welcoming 4 newcomers: HPCVirt (previously held in conjunction with EuroSys), HPSS (first edition), MDGS (first edition) and Resilience (previously held in conjunction with CCgrid). It was also great to see the CCPI, HiBB and UCHPC workshops attracting a broad audience for their second edition. Here is the complete list of workshops that were held in 2011:

1. Cloud Computing Projects and Initiatives (CCPI)
2. CoreGRID/ERCIM Workshop on Grids, Clouds and P2P Computing (CGWS)
3. Algorithms, Models and Tools for Parallel Computing on Heterogeneous Platforms (HeteroPar)
4. High-Performance Bioinformatics and Biomedicine (HiBB)
5. System-Level Virtualization for High-Performance Computing (HPCVirt)
6. Highly Parallel Processing on a Chip (HPPC)
7. Algorithms and Programming Tools for Next-Generation High-Performance Scientific Software (HPSS)
8. Managing and Delivering Grid Services (MDGS)
9. Productivity and Performance (Proper)
10. Resiliency in High-Performance Computing (Resilience) in Clusters, Clouds, and Grids
11. UnConventional High-Performance Computing 2011 (UCHPC)
12. Virtualization in High-Performance Cloud Computing (VHPC).

The present volume includes the proceedings of all workshops. Each workshop had their own paper-reviewing process. Special thanks are due to the authors of all the submitted papers, the members of the Program Committees, all the reviewers and the workshop organizers. They all contributed to the success of this edition.

We are also grateful to the members of the Euro-Par Steering Committee for their support, in particular Luc Bougé and Christian Lengauer for all their advices regarding the coordination of workshops. We thank Domenico Talia,

Pasqua D'Ambra and Mario Rosario Guarracino of the organization of Euro-Par 2010 for sharing their experience with us.

A number of institutional and industrial sponsors contributed toward the organization of the conference. Their names and logos appear on the Euro-Par 2011 website <http://europar2011.bordeaux.inria.fr/>

It was our pleasure and honor to organize and host the Euro-Par 2011 workshops in Bordeaux. We hope all the participants enjoyed the technical program and the social events organized during the conference.

January 2011

Emmanuel Jeannot
Raymond Namyst
Jean Roman

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