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Euro-Par 2008

Parallel Processing

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Proceedings

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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 computing. The major themes can be divided into the broad categories of theory, high-performance, cluster and grid, and distributed and mobile computing. These four categories comprise 14 topics that focus on particular issues of the mentioned categories.

The objective of Euro-Par is to provide a forum within which to promote the development of parallel computing both as an industrial technique and an academic discipline, extending the frontier of both the state of the art and the state of practice. The main audience for and participants in Euro-Par are seen as researchers in academic departments, government laboratories and industrial organizations.

Previous Euro-Par conferences took place in Stockholm, Lyon, Passau, Southampton, Toulouse, Munich, Manchester, Paderborn, Klagensfurt, Pisa, Lisbon, Dresden and Rennes. Next year the conference will take place in Delft.

Euro-Par 2008 was the 14th conference in the Euro-Par series. It was jointly co-organized by the Computer Architecture and Operating Systems Department of the Universitat Autònoma of Barcelona and the University Institute for Intelligent Systems and Numerical Applications in Engineering of the Universidad de Las Palmas de Gran Canaria, at the Tafira Campus of Universidad de Las Palmas de Gran Canaria.

In this edition, nine workshops were held in conjunction with the main track of the conference. These workshops were the CoreGrid symposium, the Third Workshop on Virtualization in High-Performance Cluster and Grid Computing, the Unicore Summit 2008, the Second Workshop on Highly Parallel Processing on a Chip, the 5th International Workshop on Grid Economics and Business Models, the Workshop on Productivity and Performance Tools for HPC Application Development, the Real-time Online Interactive Applications on the Grid and the Abstractions for Distributed Systems Workshops and the Workshop on Secure, Trusted, Manageable and Controllable Grid Services.

As mentioned, the conference was organized in 14 topics. Each topic was supervised by a committee of four persons: a Global Chair, a Local Chair and two Vice-Chairs. Certain topics with a high number of submissions were managed by a larger committee with more vice-chairs. The call for papers attracted a total of 264 submissions, representing 36 countries (based on the corresponding author's country). A total number of 1,013 review reports were collected which makes an average of 3.84 review reports per paper. Four papers were selected for a Best Paper session and 85 papers were accepted as regular papers to be presented in the conference and included in the proceedings of the conference, representing 25 countries. The principal contributors by country were Spain with 22 accepted papers, France with 15 accepted papers, and Germany and the USA with 9 accepted papers each.

The conference was made possible due to the support of many individuals and organizations. A number of institutional and industrial sponsors contributed toward the

organization of the conference. Their names and logos appear on the Euro-Par 2008 website <http://www.caos.uab.es/europar2008/>.

Special thanks are due to the authors of all the submitted papers, the members of the topic committees and all the reviewers in all topics, for their contributions to the success of the conference.

We are grateful to the members of the Euro-Par Steering Committee for their support. In particular, Anne-Marie Kermarrec and Luc Bougé, co-organizers of Euro-Par 2007, never failed to give us their prompt advice regarding all the organizational details. We owe special thanks to Christian Lengauer, Chairman of the Steering Committee, who was always available for sharing with us his experience in the organization of Euro-Par.

We are grateful to Springer for publishing these proceedings. In particular to Alfred Hofmann, and also especially to Anna Kramer and Christine Guenther, for their permanent availability and willingness to solve the difficulties that arose in the preparation of the proceedings.

It was our pleasure and honour to host Euro-Par 2008 at Universidad de Las Palmas de Gran Canaria. We hope all the participants enjoyed the technical program and the social events organized during the conference.

August 2008

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