

Preface

Euro-Par Conference Series

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 hardware, software, algorithms and applications for parallel computing. 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 the practice. This is particularly important at a time when parallel computing is undergoing strong and sustained development and experiencing real industrial take-up. The main audience for, and participants in, Euro-Par are seen as researchers in academic departments, government laboratories and industrial organizations. Euro-Par's objective is to be the primary choice of such professionals for the presentation of new results in their specific areas. Euro-Par is also interested in applications which demonstrate the effectiveness of the main Euro-Par themes. Previous Euro-Par conferences took place in Stockholm, Lyon, Passau, Southampton, Toulouse, Munich, Manchester, Paderborn, Klagenfurt, and Pisa. Next year, the conference will take place in Dresden. Euro-Par has a permanent Web site where its history and organization are described: <http://www.europar.org>. The Euro-Par conference series is traditionally organized in cooperation with the International Federation for Information Processing (IFIP), in cooperation with the Association for Computer Machinery (ACM), and in cooperation with the Institute of Electrical and Electronics Engineers (IEEE) Computer Society, Technical Committee on Parallel Processing (TCPP).

Euro-Par 2005 in Lisbon, Portugal

Euro-Par 2005 was the eleventh conference in the Euro-Par series. It was organized by the Centre for Informatics and Information Technology (CITI) and the Department of Informatics of the Faculty of Science and Technology of Universidade Nova de Lisboa, at the Campus of Monte de Caparica.

The conference included three invited tutorials: *Testing Multi-threaded and Distributed Applications* (Eitan Farchi and Shmuel Ur, IBM, Haifa); *Kerrighed, a Single System Image Cluster Operating System* (Christine Morin and Renaud Lottiaux, IRISA/INRIA); and *Creating and Managing Distributed Scientific Workflows* (presented by Omer F. Rana, joint work with Ian Taylor, Matthew Shields and David W. Walker, Cardiff University).

The conference included invited talks by José A.B. Fortes (Advanced Computing and Information Systems Lab, University of Florida), *On the Use of Virtualization and Service Technologies to Enable Grid Computing*; by José E. Moreira (IBM Systems and Technology Group, Rochester), *The Evolution of the Blue Gene/L Supercomputer*; by Omer F. Rana (Cardiff University), *Agent based Computational Grids: Research Issues and Challenges*; and by Raymond Bair (Laboratory Computing Resource Center, Mathematics and Computer Science Division, Argonne National Laboratory), *Science on a Large Scale*. A full paper of the talk given by Fortes, and the abstracts of the talks by Moreira, Rana, and Bair, are included in these proceedings.

A co-located workshop was organized by the GridCoord European initiative on grid computing, on *Really Large-Scale Grid Architecture*, gathering researchers from the CoreGrid NoE and leading researchers experienced with the actual deployment of applications at a very large scale. The workshop was based on the contribution of invited speakers, and the workshop attendance was free for Euro-Par 2005 participants. The CoreGRID EU Network of Excellence organized several working meetings during the conference, enriching the opportunities for debate of Euro-Par related topics.

Euro-Par 2005 Statistics

Euro-Par 2005 was organized according to the traditional conference format, in 16 topics covering a diversity of dimensions of parallel and distributed computing. Each topic was supervised by a committee of four persons: a global chair, a local chair, and two vice-chairs. The call for papers attracted a total of 388 submissions, representing 44 countries (based on the corresponding author's country). An average of 3.8 review reports were collected for each paper, for a grand total of 1470 review reports that involved about 700 different reviewers. A total of 121 full papers were accepted: 120 regular papers, and one distinguished paper. This year, there was no call for short papers, unlike previous conferences. Eventually, the camera-ready version of one paper was not submitted by one author, and therefore 120 papers are actually included in the proceedings. Papers were accepted from 23 different countries. The principal contributors by country were the USA (30 accepted papers), France (17 accepted papers), Spain (16 accepted papers), and Germany (13 accepted papers).

Acknowledgments

Euro-Par 2005 was made possible due to the support of many individuals and organizations. The CITI Centre, the Department of Informatics, and the Faculty of Science and Technology of Universidade Nova de Lisboa were the main conference institutional sponsors. A number of institutional and industrial sponsors gave their contributions and/or participated in organizing exhibits at the conference site. Their names and logos appear on the Euro-Par 2005 Web site:

<http://europar05.di.fct.unl.pt>. In particular, we gratefully acknowledge the support from IBM Portugal.

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

We are grateful to the members of the Euro-Par Steering Committee for their support. In particular, Marco Danelutto, co-organizer of Euro-Par 2004, and Harald Kosch, co-organizer of Euro-Par 2003, never failed to give us their prompt advice regarding all the organization 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, and for giving us friendly advice, support, and encouragement. We also thank Luc Bougé, vice-chair, for his vision and contributions to improve Euro-Par conferences. We are grateful to Springer for publishing these proceedings. In particular, to Alfred Hofmann, and also specially to Ursula Barth, for their permanent availability and willingness to solve the difficulties that appeared in the preparation of the proceedings.

Euro-Par 2005 was co-sponsored by the IFIP TC10/WG10.3, and organized in cooperation with ACM (SIGACT, SIGARCH, SIGMETRICS, SIGMM, SIGMOBILE, SIGMOD, SIGOPS and SIGSOFT), and in technical cooperation with the IEEE Computer Society TCPP.

Euro-Par 2005 was a GridCoord and a CoreGRID event, with co-located activities from these EU initiatives, and we thank Luc Bougé and Thierry Priol for their influence in making this possible.

We gratefully acknowledge the enthusiastic support from the Rector of the University and the Dean of the Faculty. Locally, we thank the staff of the Department of Informatics and the CITI research centre, funded by the Portuguese *Ministério da Ciência, Tecnologia e Ensino Superior* and all the people from the faculty services, as well as Filipa Reis, head secretary of the department, and Madalena Almeida, from Viagens Abreu, who made possible the local organization of Euro-Par 2005. In particular, we acknowledge the excellent efforts of the local team: Jorge Custódio, Carmen Morgado, Paulo Lopes, Vítor Duarte, João Lourenço, Cecília Gomes, Rui Marques, Miguel Maurício, and the student volunteers, who were all committed to solving the numerous problems related to the conference organization.

It was our pleasure and an honor to host Euro-Par 2005 at Universidade Nova de Lisboa. We hope all the participants enjoyed the technical programme and the social events organized during the conference.

Lisbon, June 2005

José C. Cunha
Pedro D. Medeiros

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Topic 6: Grid and Cluster Computing: Models, Middleware and Architectures

Global Chair

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Local Chair

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