Christophe Cérin
Kuan-Ching Li (Eds.)

# Advances in Grid and Pervasive Computing

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Second International Conference, GPC 2007
Paris, France, May 2007
Proceedings

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# Preface

GPC 2007 provided a high-profile, leading-edge forum for researchers and developers from industry and academia to report on the latest scientific and technical advances, discuss and debate the major issues, and showcase the latest systems in merging grid computing and the pervasive computing field.

This year, a total of 217 high-quality papers were submitted by researchers and practitioners from about 20 countries. All the submissions were rigorously reviewed by the Program Committee members. To ensure fairness and the quality of the papers, we put a number of measures in place. For example, each paper was assigned at least one reviewer from Australia, one reviewer from America, and one reviewer from Europe. Based on the originality, significance, correctness, relevance, and clarity of presentation, 56 submissions were selected as regular papers and 12 were selected as short papers. The acceptation rate is 32%. Also, the authors of accepted papers were required to submit a read-me file along with the camera-ready version of their paper explaining how the reviewers comments were taken into account in the final version of their paper.

The publication Co-chairs, Lucian Finta (Paris XIII, France) and Jemal H. Abawajy (Deakin University, Australia), painstakingly went through each read-me file and reviewers' comments to ensure that the comments were indeed incorporated into the final version of the papers. Only those papers that included reviewers' comments were finally accepted for inclusion in the proceedings. Undoubtedly, Lucian and Jemal had to work long hours to meet the tight deadline, which is greatly appreciated.

The overall outcome of the revision process is a selection of papers that showcase the very best of grid and pervasive computing technology today. After the conference, the proceedings editors selected and recommended some high-quality papers from the GPC 2007 conference to be published in special issues of international journals. Special thanks go to Jemal H. Abawajy for liasing with the chief editors of the journals.

The GPC 2007 program included presentations by accepted paper authors, keynote speeches, and a special round table on "Pervasive Grid." The special round table was organized by Lionel Brunie, Manish Parashar, and Jean-Marc Pierson. We thank them for this initiative.

We allocated a slot of 30 minutes for each paper presentation so that the participants had plenty of time for questions and answers. We were also delighted to be able to welcome three well-known international researchers, Thierry Priol (France) representing the European CoreGrid initiative, Minyi Guo, Professor at the School of Computer Science and Engineering, University of Aizu (Japan), and Laurence T. Yang representing St. Francis Xavier University (Canada), who delivered the keynote speeches.

We would like to take this opportunity to thank everyone involved with the organization of GPC 2007. First, we would like to thank all the authors for their submissions to the conference as well as for travelling some distance to participate in the conference. Second, we would like to thank the Program Committee members and external reviewers for their superb job in selecting a set of excellent papers that reflect the current research and development states of grid and pervasive computing.

Third, we would like to thank Franck Cappello (INRIA, France), Jean-Luc Gaudiot (University of California at Irvine), and Hai Jin (Huazhong University of Science and Technology, Wuhan) for their valuable comments during the year. Our appreciation also extends to Alfred Hofmann and Anna Kramer, both from Springer, for their helpful comments in strengthening the conferences. We will continue to improve further, in particular with the selection of the Program Committees and other scientific issues. We are also grateful to Christine Nora and Cyril Drocourt from IEEE France for the secure Web payment and for managing the finances. Jean-Christophe Dubacq (Paris XIII) was busy with the review system, the Web server, registration, and many other important issues regarding the technical program. Catherine Girard from the INRIA Office of the Colloqium did a superb job once again with the organization and the INRIA sponsorship. It is always a pleasure to work with Catherine Girard and her high level of professionalism is highly appreciated.

GPC2007 was sponsored by Hewlett Packard through the strong support of Franck Baetke, Philippe Devins, and Jean-Luc Assor, by INRIA and the University of Paris XIII through the 'Conseil Scientifique', and also through Laboratoire de Recherche en Informatique de Paris Nord (LIPN - UMR CNRS 7030).

Last but not least, we express our gratitude to François and Ludivine from Dakini Conseil for their help in organizing accommodation for conference attendees, finding a venue for the conference and also for its banquet. We would also like to thank Severine Bonnard from MGEN for allowing us to rent the beautiful MGEN building with all the services that a speaker dreams to find on a site (e.g., comfortable rooms, a restaurant for the gourmets, etc.) in the center of Paris.

Remember also that on August 8, 1900, the German mathematician David Hilbert during the International Congress of Mathematicians in Paris presented a list of 23 unsolved problems that he saw as being the greatest challenges for twentieth-century mathematics. One of them, the 10th problem, is about Diophantine equations. It has been relevant for many years and the basis of the work of many people including Church, Herbrand, Kleene, Godel, and Turing. The 10th problem is about how to find a method (what we now call an algorithm) for deciding whether a Diophantine equation has an (integral) solution. We hope readers will be inspired by these proceedings. We hope also that attendees will be inspired by the spirit of Paris and by the great history of our discipline to achieve new advance in the field of Grid and Pervasive computing.

March 2007

Christophe Cérin
Kuan-Ching Li

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