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Message from the General Chairs

It is our great pleasure to welcome you to the beautiful campus of Tunghai University, Taiwan, and the first annual event of the International Conference on Grid and Pervasive Computing (GPC). Grid computing addresses the needs for coordinating and sharing large-scale heterogeneous resources for problem solving in dynamic, multi-institutional virtual organizations. Extending the resource concept into our physical surroundings and everyday objects, it is not hard to see the overlapping of grid and pervasive computing. It is with this view that GPC 2006 was established to serve as the premier forum covering the emerging research and development on blending and extending grid and pervasive technologies.

An international conference of this scale requires the support of many people. First of all, we would like to thank the Steering Committee Chair, Hai Jin, and the committee members for nourishing the conference and guiding its course. We also like to express our sincere appreciation to the Program Chairs, Yeh-Ching Chung and Jose Moreira, who, together with the exceptional Program Committee members, put together a highly selective and very exciting technical program. We are also indebted to the members of the Organizing Committee. Particularly, we thank Chao-Tung Yang, Kuan-Ching Li, Cho-Li Wang and Ching-Hsien Hsu for their devotions and efforts to make this conference a real success. Our heartfelt gratitude also goes to the Honorary General Chair, President of Tunghai University, Haydn H.D. Chen for his full support of this conference. Finally, we would like to take this opportunity to thank all the authors, reviewers and participants for their contributions to making GPC 2006 a grand success.

It has been an honor for us to serve as General Chairs for the first event of this great conference and to work with a group of dedicated and capable people. We trust that you will enjoy the proceedings of GPC 2006.

May 2006

Sajal K. Das and Chung-Ta King
General Co-chairs

Message from the Program Co-chairs

We are proud to present the proceedings of the First International Conference on Grid and Pervasive Computing 2006, held at Tunghai University during May 3-5.

Grid and Pervasive Computing (GPC) is an annual international conference on the emerging areas of merging grid computing and pervasive computing, aimed at providing an exciting platform and paradigm for all the time, everywhere services. This emergence is a natural outcome of the advances in cluster computing, high-performance computing, utility computing, service-oriented computing, peer-to-peer computing, mobile computing, sensor networks, and smart devices technologies. The aim of GPC 2006 was to be the premier event on grid and pervasive computing, focusing on all aspects of grid and pervasive computing and providing a high-profile, leading edge forum for researchers and engineers alike to present their latest research.

In order to guarantee high-quality proceedings, we put extensive effort into reviewing the scientific papers and processing the proceedings. We received 267 papers from 24 countries. All submissions were peer reviewed by three or four program or technical committee members or external reviewers. It was extremely difficult to select the presentations for the conference because there were so many excellent and interesting ones. In order to include as many papers as possible and keep the high quality of the conference, we finally decided to accept 64 papers for oral presentations. We believe all of these papers and topics will not only provide novel ideas, new results, work in progress and state-of-the-art techniques in this field, but will also stimulate future research activities in the area of grid and pervasive computing with applications.

This conference would not have been possible without the support of many people and organizations that helped in various ways to make it a success. The exciting program for this conference was the result of the hard and excellent work of many people. We would like to express our sincere thanks to the invited speakers who delivered such high-quality lectures at GPC 2006 and all authors for their valuable contributions. We thank the Program Committee members for their excellent job of reviewing the submissions and thus guaranteeing the quality of the conference and the proceedings under a very tight schedule.

May 2006

Yeh-Ching Chung and Jose E. Moreira
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