Message from HPSEC Chairs

Welcome to the 7th International Workshop on High Performance Scientific and Engineering Computing (HPSEC-05) held in conjunction with the International Conference on Parallel Processing (ICPP-2005), Oslo, Norway, June 14-17, 2005.

High performance computing is one of the most exciting technologies to solve real-world problems in computational science and engineering. It is expected that the years to come will witness a proliferation of the use of parallel and distributed systems. High performance computing has become a key technology which plays an important part in determining and shaping research and development activities in many academic and industrial branches, in particular when the solution of large-scale problems must cope with harder and harder requirements for computing time and storage. This special workshop is to bring together computer scientists, applied mathematicians and researchers to present, discuss and exchange ideas, results, work in progress and experience of research in the area of high performance computing for problems in science and engineering applications.

The workshop received 39 submissions representing 14 different countries. All submissions were carefully reviewed by committee members and external reviewers. In order to allocate as many papers as possible and also keep the high quality of the workshop, we finally decided to accept 13 papers for oral technical presentation. 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 also stimulate future research activities in the area of high performance computing for science and engineering applications.

The program for this workshop is the result of hard and excellent work of many people, including authors, external reviewers, and program committee members. We would like to express our sincere appreciation to all of them for their cooperation in completing the workshop program under a very tight schedule. Last but not least, we thank Tor Skeie and Chu-Sing Yang, ICPP-2005 Workshop Co-Chairs for helping and encouraging the inclusion of HPSEC-05 in ICPP-05.

General Co-Chairs: Osamu Tatebe and Laurence T. Yang
Program Co-Chairs: Martin Bücker and Xing Cai