Welcome to the Workshop on High Performance Scientific and Engineering Computing with Applications (HPSECA-01) held in conjunction with the International Conference on Parallel Processing (ICPP-01) to be held in Valencia, Spain, September 03-07, 2001.

Parallel and distributed processing is one of the most exciting technologies to achieve prominence, whose development has been facilitated by the rapid advances in electronic and integrated circuit technologies, since the invention of computers in the 1940s. It is expected that the years to come will witness a proliferation of the use of parallel and distributed systems, or supercomputers. This kind of computing method has become a key technology which will play an important part in determining, or at least shaping, future research and development activities in many academic and industrial branches, especially when the solution of large and complex problems must cope with harder and harder timing scheduling. This special workshop brings 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 parallel and distributed computing for problems in science and engineering applications.

There was a large number of paper submissions from not only the Asian Pacific, but also Europe and North America. All submissions were reviewed by at least three committee members or external reviewers. It is extremely difficult to select the presentation on the workshop because there were many excellent and interesting submissions. In order to allocate as many papers as possible and keep the high quality of the workshop, we finally decided to accept 30 papers for oral technical presentation in the workshop. 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 parallel and distributed computing for science and engineering applications.

The program for this workshop is a result of the hard and excellent work of many others, reviewers and program committee members. We would like to express our sincere appreciation to all authors for their valuable contributions and to all program committee members for their cooperation in completing the workshop program under a very tight schedule. Last but not the least, we thank Prof. Timothy Pinkston, the workshops chair of ICPP-01, for helping and encouraging the inclusion of HPSECA-01 in ICPP-01.

Laurence Tianruo Yang, St. Francis Xavier University, Canada
Yi Pan, Georgia State University, USA
Workshop Co-Chairs