Foreword

Scalable parallel computers have the potential of providing the highest possible performance at the lowest possible cost. Distributed computers, that is clusters of workstations, are even more cost-effective, if the workstations already exist. With increasing performance of the interconnection network of workstations clusters and increasing efficiency of their operating software, the performance of distributed computing will increase accordingly. Consequently, it is expected that parallel computing will become more widely utilized, although the organizational problems remain and still need to be resolved.

The purpose of the international conference on Advances in Parallel and Distributed Computing is to bring together scientists from all over the world to present and discuss recent achievements in the development and use of parallel or distributed computers. The conference itself addresses the entire gamut of related topics, ranging from architectural aspects of parallel computer hardware and basic software to new algorithms and performance issues, with a strong focus on parallel/distributed programming paradigms and novel applications for parallel and distributed computing.

The call for papers engendered a large response that allowed the program committee to select over 60 quality papers, based on the review of the submitted papers by three reviewers. Of the 60 plus papers selected, about half were submitted by researchers in countries outside of China and the other half by Chinese researchers. All selected papers are included in the proceedings. In addition, there will be an invited keynote speech and a panel discussion about “The Future of Parallel Computing.” Since we wanted to hand out the proceedings at the conference, the invited speech and the panel discussion will of course, not be included.

The editor wants to take this opportunity to thank all the authors, many of whom will travel great distances to participate in the conference and present their papers. He would also like to express his gratitude to the program committee members and the additional reviewers for the time and work they have put into the thorough review of the large number of papers submitted. In addition, thanks are due to the local organizing committee for the great job they have done in making the local arrangements and organizing an attractive social program.

Last but not least, we would like to express our gratitude to all of the organizations who supported our efforts to bring this conference to fruition. We proudly list the support of the IEEE Computer Society, the National Natural Science Foundation of China, the German National Research Center for Information Technology, Shanghai Jiao Tong University, and the China Computer Federation. Thanks also to the IEEE Computer Society Press for their assistance in putting the proceedings together.

Welcome to APDC ’97!

Del Mar, California, November 15, 1996

Wolfgang K. GiloI
Program Committee Chair