Welcome everyone, to IPDPS 2008 – the 22nd International Parallel and Distributed Processing Symposium, April 14–18, in Miami, Florida, known as the "Magic City" and recognized worldwide as an international cultural and business hub. I am honored to chair this prestigious conference – a premier international event in the area of parallel processing and distributed computing.

IPDPS serves as a forum for engineers and scientists to present their latest research findings in the fields of parallel processing and distributed computing. The five-day program will follow the usual format of contributed papers, invited speakers, panels, tutorials, and commercial participation mid-week, framed by workshops held on the first and last days. We are very pleased that you are taking part in this technical forum along with participants joining us from academia, industry, and research laboratories all around the world. We have worked very hard to make every facet of this symposium interesting for attendees by carefully selecting 105 general session technical papers, 22 workshops and associated papers, three keynote speakers, a banquet speaker, a commercial track and associated papers, a symposium panel, a symposium tutorial, birds-of-a-feather sessions, and the new TCPP PhD forum.

The success of this symposium is a direct result of the hard work and contributions made by many, including the organizing committee members, the steering committee, the authors and sponsors—all of whom I gratefully acknowledge. I am especially indebted to Yves Robert, the Program Chair, who assembled an excellent group of Program Committee members and Program Vice-Chairs for the four main areas of the symposium: Cynthia Phillips for “Algorithms,” Jack Dongarra for “Applications,” David Kaeli for “Architecture,” and Paul J. J. Kelly for “Software.” I greatly appreciate the efforts made by Yves Robert and his team in putting together a high-quality technical program, including a panel moderated by Jeper Larsson Traeff. Many thanks to our keynote speakers, Dror Feitelson, Joel Saltz, and Katherine Yelick, and to banquet speaker, Jeannette Wing, for contributing to the symposium.

It has been my pleasure to work with other members of the organizing committee. Among them, Alessandro Mei, General Vice-Chair, worked very hard to organize the birds-of-feather session. Special thanks to Alan Sussman, the Workshops Chair, who worked tirelessly to put together an excellent set of workshops. I thank him along with the organizers of each workshop for the marvelous job they did in assembling a variety of emerging topics of interest to the parallel and distributed processing community. I appreciate the effort made by Anita LaSalle, NSF Program Director, for continuing the tradition of hosting an NSF CSR workshop as a part of IPDPS workshops. I am very grateful to Sushil Prasad, the Tutorials Chair and IEEE TCPP Chair, for his efforts in selecting a timely tutorial of broad interest to the IPDPS audience and for providing IEEE-sponsored travel support for student participation. I especially thank Yuanyuan Yang, the Proceedings Chair, who spent countless hours and did an outstanding job in pulling together the conference and workshop proceedings. I gratefully acknowledge the contributions of David Klepacki and Cheng-Zhong Xu, the Commercial Presentations and Exhibits Co-Chairs, for
their tremendous out-reaching effort to attract commercial participation and sponsorship. I am also very grateful to the Publicity Coordinators, Jiannong Cao, Roberto Di Pietro, and Ivan Stojmenovic, for the major effort they put forth in publicizing this symposium. I greatly appreciate the effort made by Sandeep Gupta, who initiated the PhD forum this year.

Putting together a major conference obviously requires support from many key individuals. I thank many other vital supporting cast members who, with their help and hard work, have made this symposium a successful one. Headliners in this list include Production Chair Sally Jelinek, Finance Chair Bill Pitts, Local Arrangements Chair Susamma Barua, and Steering Co-Chairs Viktor Prasanna and George Westrom. Without these key individuals, the process of running this symposium would not have gone nearly so smoothly. I especially thank Sally Jelinek for pitching in a number of ways above and beyond the call of her defined duties, and for her patience in working with me on countless conference details. I also greatly appreciate Viktor Prasanna for being very generous with his time and useful guidance to ensure the success of the conference.

I would like to express my sincere gratitude to the steering committee, who invited me to serve as General Chair, and who provided the organizing committee with useful direction throughout this event. This has been a very rewarding experience for all of us. Last, but certainly not least, I would like to express our thanks to all authors and attendees. The conference would not have been successful without their involvement and participation. On behalf of the conference organizing committee, we hope you find many topics of interest in our program, and hope that you enjoy your stay in Miami!

Jie Wu
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