Welcome to HPCA 2001, the seventh annual Symposium on High Performance Computer Architecture. We're particularly excited to bring this, the premier IEEE computer architecture conference, to the Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM) here in Nuevo León, México. As one of the leading technical institutions in Latin America, ITESM has developed excellent distance learning programs that attract talent from diverse communities, putting them in an ideal position to further the globalization of the workforce and to help meet rapidly growing demands for IT professionals.

One of the most important aspects of a high-quality conference is its paper review process. The reviewers of HPCA-7 did an outstanding job. Each paper received at least three, and in most cases five, thorough reviews. The Program Committee met on September 23, 2000 in Chicago, and the meeting continued well into the evening to ensure that every paper received careful consideration. The final program consists of 26 papers selected from among 110 high quality submissions.

From microarchitecture and compilation techniques, through application-specific designs to power and thermal management, this year's technical program provides a survey of the latest research findings in this rapidly changing field. Two tutorials (Power-Performance Modeling, and VIA and InfiniBand Communication Architecture), three workshops (the Fifth Workshop on Interaction between Compilers and Computer Architectures, the Fourth Workshop on Computer Architecture Evaluation using Commercial Workloads, and the Workshop on Microprocessors for Networks and Communications), and the second annual Work-in-Progress session complement the outstanding paper sessions.

Putting together a conference requires the time and effort of many people. The members of both the organizing and program committees are listed elsewhere in these proceedings. Our collective thanks go to them for their contributions to the conference's program. From the advance work on local arrangements to the editing of these proceedings, they have all delivered on their commitment to HPCA.

Wen-mei Hwu  
*Program Chair*

Ashwini Nanda and Gabby Silberman  
*General Co-Chairs*