Welcome to SBAC-PAD 2007, the 19th Symposium on Computer Architecture and High Performance Computing. This year, SBAC-PAD returns to Gramado, the heart of one of the most privileged regions of Southern Brazil. Gramado is part of the Romantic Route, a set of cities with a strong German influence in architecture, in gastronomy, and even in the accent. Thus, we trust that this event will be memorable to you, not only for the quality of technical sessions and speakers, but also for this beautiful venue.

We want to remind you that the first SBAC-PAD, held twenty years ago, also took place in Gramado. So, this venue has a special meaning to all the people involved with the organization of SBAC-PAD throughout the years. We would thus like to offer our special thanks to all the previous organizers, PC members, reviewers and authors, who worked hard to give this event world-wide recognition. Today, the international community marks SBAC-PAD in its annual calendar and many research groups regularly choose this event to publish their most recent findings.

We are honored with several highly distinguished keynote speakers, who kindly accepted to join us this year. We are also extremely proud to offer you six different Workshops to discuss the hottest topics in the field of architecture and high performance applications. Also as part of this year program, we included the 2nd Marathon of Parallel Programming and the 1st Open Contest of Parallel Programming, which were open to participants from all over the world.

We would like to thank the Program Committee Chairs, Professor Jean-Luc Gaudiot (UCI, USA) and Professor Vinod Rebello (UFF, Brazil), all the PC members, as well as the reviewers for their work selecting a remarkable set of technical papers. We also want to thank all those authors who worked hard to submit their best research results.

In addition, we would like to recognize here the work of all those who contributed to make this year another success in the SBAC-PAD series: the Steering Committee, who gave us extraordinary guidance throughout the organizing process and the Organizing Committee, for its outstanding work.

We are immensely grateful to all our sponsors: the Brazilian Computer Society (SBC), the IEEE Computer Society through the Technical Committees on Computer Architecture (TCCA) and Scalable Computing (TCSC), IFIP, and the Brazilian government agencies CAPES and CNPq. Also, we are deeply appreciative of our industrial sponsors for helping bring academia closer to industry.

We wish you a great conference and a wonderful stay in Brazil in general and in Gramado in particular!

Philippe Olivier Alexandre Navaux – General Chair