

**SBAC-PAD 2007** 19<sup>th</sup> International Symposium on Computer Architecture and High Performance Computing

24 – 27, October, Gramado, Brazil **CFP**

SBAC-PAD is an annual international conference series, the first of which was held 20 years ago, in 1987. Each conference has traditionally presented new developments and high performance applications, as well as the latest trends in computer architecture and parallel and distributed technologies. This year, the symposium returns to Gramado, Rio Grande do Sul, Brazil. The conference will be held at the Hotel "Serra Azul," located in the heart of downtown Gramado and within walking distance of the main tourist attractions.

SBAC-PAD 2007 will be sponsored by the Brazilian Computer Society, by the IEEE Computer Society (co-sponsoring through the Technical Committee on Computer Architecture (TCO/C) and Systems Computing (TCSO), and by UFRGS. Authors are invited to submit manuscripts (submitted original unpublished research) in all areas of computer architecture and high performance computing, with special emphasis on emerging technologies in recently selected topics. Topics of interest include, but are not limited to:

- Application-specific Architectures
- Microprocessor, Performance Measurements and Analysis
- Cache and Memory Architectures
- Distributed Systems
- Multi-Process Architectures and Systems
- Real-Time, Embedded and Real-Time Computing
- High-Performance Applications and Parallel and Distributed Algorithms
- Interconnect Networks, Routing, and Communications
- Language, Compilers and Tools for Parallel and Distributed Programming
- Load Balancing and Scheduling
- Microarchitectures
- Operating Systems and Virtualization
- Hardware and Distributed Architectures
- Performance and Management Computing
- Real-Time Applications and Case Studies
- Reconfigurable Systems

SBAC-PAD invites presentations of original research, written in English and not exceeding 8 pages (8 double-spaced), during the SBAC Conference days, to be submitted to PCP format. The proceedings will be published by the IEEE Computer Society Press. Please check the SBAC-PAD 2007 web site for further information: <http://www.rtu.org.br/sbac/2007/>

The authors of selected papers will also be invited to submit extended versions of their papers to participate in a special issue of the International Journal of Parallel Programming.

**Important Dates**

- Paper Submission Deadline: May 29, 2007
- Author Registration: July 26, 2007
- Conference: October 24-27, 2007

SBC IEEE ifip UFRGS uff

## SBAC-PAD 2007: 19TH INTERNATIONAL SYMPOSIUM ON COMPUTER ARCHITECTURE AND HIGH PERFORMANCE COMPUTING

Gramado, Rio Grande do Sul,  
24 a 27 de outubro de 2007

<http://www.sbc.org.br/sbac/2007/>

### Presentation

SBAC-PAD is an annual international conference series, the first of which was held 20 years ago, in 1987. Each conference has traditionally presented new developments, applications, as well as the latest trends in computer architecture and parallel and distributed technologies.

This year, the symposium returns to Gramado, Rio Grande do Sul, Brazil. The conference will be held at the Hotel "Serra Azul," located in the heart of downtown Gramado and within walking distance of the main tourist attractions. The "Serra Azul" has a long tradition of hosting international events and will provide all necessary amenities to the conference attendees and their guests.

The SBAC-PAD 2007 will be organized by UFRGS (Federal University of Rio Grande do Sul) and UFF (Fluminense Federal University) as they both have a long experience on planning and organizing several major conferences.

### Objectives

The SBAC-PAD series main objectives include, but not limited, to the following:

- To promote integration among students, professors, researchers and other professionals interested in architectures, microprocessors, parallel computation and high performance computing;
- To present the newest trends in the high performance computing market;

- To present the newest scientific researches in high performance computing field;
- To promote the integration among different international research groups working in architecture and high performance;
- To promote cooperation and partnership between Academia and Industry in the field.

## **Antecedents**

SBAC-PAD is an international event organized mainly by Brazilian Universities and Institutions which takes place in different states throughout the country.

The first SBAC-PAD was also organized by UFRGS, in 1987. After that, different well known institutions such as USP, UnB, UFRN, UFMG, UFF, UFPE, INPE and UFRJ became organizers. SBAC-PAD also counts with international support, as it is co-sponsored by IEEE. Furthermore, several international universities were involved in the organization, such as University of California (USA), University of Melbourne (Australia) and University of Tennessee (USA).

The Program Committee is entirely international and the percentage of acceptance is around 30%, which is the same acceptance rate from the best conferences in the world. Also, the invited speakers are usually renamed professors and researchers from the major high performance groups in the world. The event brought to Brazil Professors such as James Smith, Joel Saltz, Yale Patt, Gurindar Sohi, Jean-Luc Gaudiot, Luiz Barroso, Rajkumar Buyya among others. This assures a high quality conference with selected attendees.

Also, several major companies have become SBAC sponsors through the years, such as: NEC, IBM, SGI, Intel, Cisco Systems, Cray, among others.

## **Organization**

The 19<sup>th</sup> International Symposium on Computer Architecture and High Performance Computing will be organized mainly by UFRGS (Federal University of Rio Grande do Sul) and UFF (Fluminense Federal University). Additionally, SBC (Brazilian Computer Society) will be the main promoter with the co-sponsorship of IEEE Technical Committee in Computer Architecture.

Moreover, the most important Brazilian R&D agencies are involved with the event, such as:

- CNPQ
- FINEP
- CAPES
- FAPERGS

The organizing committee is listed below:

#### **General Chair**

- Philippe Olivier Alexandre Navaux (UFRGS, Brazil)

#### **Program Committee Co-Chairs**

- Vinod Rebello (UFF, Brazil)
- Jean-Luc Gaudiot (UCI, United States)

#### **Steering Committee**

- Alberto F. de Souza (UFES, Brazil)
- Claudio L. Amorim (UFRJ, Brazil)
- Jairo Panetta (INPE, Brazil)
- Jean-Luc Gaudiot (UCI, United States)
- Liria M. Sato (USP, Brazil)
- Philippe O. A. Navaux (UFRGS, Brazil)
- Rajkumar Buyya (Australia)
- Siang W. Song (USP, Brazil)

#### **Organizing Committee**

- Adenauer Yamin (UCPEL, Brazil)
- Denise Grüne Ewald (CESUP, UFRGS, Brazil)
- Lourdes Tassinari (UFRGS, Brazil)
- Lucas Schnorr (UFRGS, Brazil)
- Nicolas Maillard (UFRGS, Brazil)
- Philippe Olivier Alexandre Navaux (UFRGS, Brazil)
- Tatiana Santos (UFRGS, Brazil)
- Vinod Rebello (UFF, Brazil)
- Wagner Meira (UFMG, Brazil)

### **Estimated Public**

Typically, SBAC-PAD is attended by 200 researchers, professors, students and other professionals interested in the field. These attendees came from several national and international universities, laboratories and institutions.

### **Sponsorship Investment**

Companies interested in sponsor SBAC-PAD 2007 will be able to choose among 3 different types of share:

- Share 1 – Bronze Sponsor

- Share 2 – Silver Sponsor
- Share 3 – Gold Sponsor

The sponsors' benefits in terms of media space vary proportionally with the value of the investment for participation at each share, as described in Table 1.

**Table 1 – Media space and categories of sponsorship.**

<b>Benefits</b>	<b>Bronze</b>	<b>Silver</b>	<b>Gold</b>
Banners	X	X	X
Logo on conference material (bags, Proceedings, web site, etc.)	X	X	X
Souvenirs, pins, and other distributions	X	X	X
Other types of publicity to be included in the conference bag	X	X	X
Lunch/Dinner with keynote speaker ***			X
Award (prize not included)		X	X
Exhibition booth			X
Exhibition counter/desk		X	
Number of free registrations	1	2	4

\*\*\* An additional fee will be charged for food costs. Speaker expenses not included.

**This proposal does not include the attendees' list release.**

## Contact

If your company or institution is interested in sponsor SBAC-PAD 2007, please contact the following people from our Organizing Committee:

- Denise Ewald – Sponsor Chair
  - Email: [denise@cesup.ufrgs.br](mailto:denise@cesup.ufrgs.br)
  - Phone: +55 (51) 3308-3139
  - Fax: +55 (51) 3308-4269
- Philippe Navaux - General Chair
  - Email: [sbac2007-l@inf.ufrgs.br](mailto:sbac2007-l@inf.ufrgs.br)
  - Fax: +55 (51) 3308-7308