

PASCO 2010

21 - 23 July 2010

Ensimag, Grenoble, France

<http://pasco2010.imag.fr>

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Grenoble Tourisme & Congrès

Topics

- Design and analysis of parallel algorithms for computer algebra
- Practical parallel implementation of symbolic or symbolic-numeric algorithms
- High-performance software tools and libraries for computer algebra
- Applications of high-performance computer algebra
- Distributed data-structures for computer algebra
- Hardware acceleration technologies (multi-core, GPUs, FPGAs) applied to computer algebra
- Cache complexity and cache-oblivious algorithms for computer algebra
- Compile-time and run-time techniques for automating optimization and platform adaptation of computer algebra algorithms



Invited Speakers

Christian Bertin (STMicroelectronics)
& **Claude-Pierre Jeannerod**, (INRIA), France.
Techniques and tools for implementing IEEE 754 floating-point arithmetic on VLIW integer processors.

Erich L. Kaltofen, North Carolina State University, USA.
*15 years after DSC and WLSS2:
what parallel computations I do today.*

Stephen T. Lewin-Berlin,
Quanta Cambridge Research, Inc., USA
Exploiting Multicore Systems with Cilk.

Tutorials

Jeremy Johnson, Drexel University, USA.
Automatic Performance Tuning.

Daniel Kunkle, Northeastern University, USA.
Roomy: A System for Space Limited Computations.

Conference Organization

- General Chairs: Marc Moreno Maza and Jean-Louis Roch
- Local arrangements and Programming Contest Chairs:
Jean-Guillaume Dumas, Thierry Gautier, and Clément Pernet
- Administration: Danièle Herzog, Christian Séguy, Ahlem Zammit-Boubaker
- Publicity Chair: Daniel Cordeiro

Program Committee

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|--------------------------|-----------------------|------------------------|
| • Daniel Augot | • Stef Graillat | • Manuel Prieto-Matias |
| • Jean-Claude Bajard | • Jeremy Johnson | • Markus Pueschel |
| • Olivier Beaumont | • Erich Kaltofen | • Nathalie Revol |
| • Bruce Char | • Herbert Kuchen | • Jean-Louis Roch |
| • Gene Cooperman | • Philippe Langlois | • David Saunders |
| • Gabriel Dos-Reis | • Anton Leykin | • Eric Schost |
| • Jean-Christophe Dubacq | • Gennadi Malaschonok | • Wolfgang Schreiner |
| • Jean-Guillaume Dumas | • Michael Monagan | • Arne Storjohann |
| • Jean-Charles Faugere | • Marc Moreno Maza | • Sivan Toledo |
| • Matteo Frigo | • Winfried Neun | • Gilles Villard |
| • Thierry Gautier | • Clément Pernet | • Yuzhen Xie |
| • Pascal Giorgi | • Nicolas Pinto | • Kazuhiro Yokoyama |

