CALL FOR PAPERS

IMPACT 2012

2nd International Workshop on Polyhedral Compilation Techniques
Paris, France, Jan 23, 2012

in conjunction with

the 7th International Conference on High Performance
Embedded Architectures and Compilers (HiPEAC 2012)
in Paris, France, Jan 23-25, 2012

Main topics

With the emergence of multicore processors and hardware accelerators, polyhedral compilation techniques have gained a lot of attention in both academia and industry, as a way to design effective loop nest optimization frameworks for high performance. This workshop on polyhedral compilation techniques provides a high-quality forum for researchers and practitioners working on program analysis, transformations, and optimizations using the polyhedral model.

We welcome both theoretical and experimental papers on all aspects of polyhedral compilation and optimization. We strongly encourage submissions describing preliminary results, crazy new ideas, position papers, experience reports, and available tools, with an aim to stimulate discussions, collaborations, and advances in the field. Topics of interest include but are not limited to:

- Polyhedral Compilation Flow

- Automatic Parallelization and Optimization

- Static Analysis

- Program Verification

- Model Checking

- Theoretical Foundations of the Polyhedral Model

- Robustness and Scalability of Polyhedral Techniques

- Extensions to the Polyhedral Model

- Hybrid Static-cum-Runtime Parallelization Techniques

- Hardware Synthesis

- Tool Demonstration

Important dates

Submission deadline:	November 14, 2011
Notification of decision:	December 14, 2011
Final version due:	January 3, 2012
Workshop	January 23, 2012

Submission

Submissions should not exceed 8 pages (recommended 6 pages) formatted as per ACM proceedings format. Please use the following template when preparing your manuscript:
`http://www.acm.org/sigs/publications/proceedings-templates`
Submissions should be in PDF format and printable on US Letter or A4 sized paper. Please send your submission by the deadline to `impact-chairs@lists.gforge.inria.fr`
Please indicate in your email if you wish to submit as a:

1. regular paper,

2. position paper,

3. wild and crazy idea, or

4. tool demonstration

Proceedings will be published online on the conference website and distributed to the participants. Publication at IMPACT will not prevent later publication of extended papers.

Workshop format

After the remarkably successful first edition of this workshop (46 registered people and 60+ attendees), held in conjunction with CGO 2011 in Chamonix, France, this second edition will be organized as a full-day *HiPEAC Workshop*. More information is available at: `http://impact.gforge.inria.fr/impact2012` and `http://www.hipeac.net/conference`

Committees

Organizers and Program Chairs
Uday Bondhugula (Indian Institute of Science (IISc), Bangalore)
Vincent Loechner (INRIA and University of Strasbourg, France)
Contact: `impact-chairs@lists.gforge.inria.fr`

Local Arrangements
Louis-Noel Pouchet, The Ohio State University, USA

Program Committee
Christophe Alias (INRIA, France)
Cedric Bastoul (Paris-Sud U., France)
Philippe Clauss (Strasbourg U., France)
Albert Cohen (INRIA, France)
Alexandre Eichenberger (IBM, USA)
Paul Feautrier (ENS Lyon, France)
Armin Größlinger (University of Passau, Germany)
Mary Hall (University of Utah, USA)
Francois Irigoin (MINES ParisTech, France)
Paul Kelly (Imperial College London, UK)
Ronan Keryell (HPC Project, France)
Benoit Meister (Reservoir Labs, Inc., USA)
Sebastian Pop (Qualcomm, USA)
Louis-Noel Pouchet (The Ohio State University, USA)
J. Ramanujam (Louisiana State University, USA)
Sanjay Rajopadhye (Colorado State University, USA)
P. Sadayappan (The Ohio State University, USA)
Nicolas Vasilache (Reservoir Labs, Inc., USA)
Sven Verdoolaege (Leiden University, Netherlands)