First USENIX Workshop on Hot Topics in Parallelism (HotPar '09)

Sponsored by USENIX, the Advanced Computing Systems Association

http://www.usenix.org/hotpar09

March 30–31, 2009 **Berkeley, CA**

Important Dates

Submissions due: *October 19, 2008, 11:59 p.m. PDT*
Notification of acceptance: *January 16, 2009*
Electronic files due: *March 3, 2009*

Workshop Organizers

Program Co-Chairs

Alexandra Fedorova, *Simon Fraser University*
Jim Larus, *Microsoft*

Program Committee

Andrew Brownsword, *Electronic Arts*
María Garzarán, *University of Illinois, Urbana-Champaign*
Anwar Ghuloum, *Intel*
Keith Lowery, *AMD*
Mark Moir, *Sun Microsystems*
Kunle Olukotun, *Stanford University*
David Patterson, *University of California, Berkeley*
Martin Rinard, *Massachusetts Institute of Technology*
Mike Swift, *University of Wisconsin—Madison*

Steering Committee Chair

Clem Cole, *Intel*

Steering Committee

Jonathan Chew, *Sun Microsystems*
Alva Couch, *Tufts University*
Alexandra Fedorova, *Simon Fraser University*
Greg Ganger, *Carnegie Mellon University*
Steve Johnson, *MathWorks*
Norm Jouppi, *HP*
Jim Laudon, *Google*
Hank Levy, *University of Washington*
Geoff Lowney, *Intel*
David Patterson, *University of California, Berkeley*
Eric Saxe, *Sun Microsystems*
Leendert van Doorn, *AMD*

Overview

The First USENIX Workshop on Hot Topics in Parallelism (HotPar '09) will bring together researchers and practitioners doing innovative work in the area of parallel computing. Multicore and multithreaded processors are the pervasive computing platform of the future. This trend is driven by limits on energy consumption in computer systems and the poor energy performance of conventional microprocessors. Parallel architectures can potentially mitigate these problems, but this new computer architecture will only be successful if languages, systems, and applications can take advantage of parallel hardware. Navigating this change will require new concurrency-friendly programming paradigms, new methods of application design, new structures for system software, and new models of interaction between applications, compilers, operating systems, and hardware.

Submissions

We request submissions of position papers that propose new directions for research of products in these areas, advocate non-traditional approaches to the problems engendered by parallelism, or potentially generate controversy and discussion. We encourage submissions from practitioners as well as from researchers. HotPar recognizes the broad impact of multicore computing and seeks relevant contributions from all fields, including application design, languages and compilers, systems, and architecture. We particularly encourage contributions containing highly original ideas that are likely to have a significant impact.

To ensure a productive workshop environment, attendance will be limited to 75 participants. Each potential participant should submit a position paper of five or fewer pages. Papers will be selected based on the submission's originality, technical merit, topical relevance, and likelihood of leading to insightful technical discussion at the workshop.

Submitted papers must be no longer than 5 single-spaced 8.5" x 11" pages, including figures, tables, and references; two-column format, using 10-point type on 12-point (single-spaced) leading; and a text block 6.5" wide x 9" deep. Author names and affiliations should appear on the title page.

Position papers must be in PDF and must be submitted via the the Web submission form on the HotPar '09 Call for Papers Web site, http://www.usenix.org/hotpar09/cfp.

All papers will be available online to registered attendees prior to the workshop and will be available online to everyone starting on March 30, 2009. If your accepted paper should not be published prior to the event, please notify production@usenix.org.

Authors of accepted papers will be invited to present their paper at the workshop. Submission of the paper implies the author's consent to present the paper if it is accepted. In addition to technical sessions, the workshop will feature panels of experts, invited talks, and ample time for "hallway" conversations.

Simultaneous submission of the same work to multiple venues, submission of previously published work, and plagiarism constitute dishonesty or fraud. USENIX, like other scientific and technical conferences and journals, prohibits these practices and may, on the recommendation of a program chair, take action against authors who have committed them. In some cases, program committees may share information about submitted papers with other conference chairs and journal editors to ensure the integrity of papers under consideration. If a violation of these principles is found, sanctions may include, but are not limited to, barring the authors from submitting to or participating in USENIX conferences for a set period, contacting the authors' institutions, and publicizing the details of the case.

Note that the above does not preclude the submission of a regular full paper that overlaps with a previous short paper or workshop paper. However, any submission that derives from an earlier workshop paper must provide a significant new contribution, for example, by providing a more complete evaluation. Authors uncertain whether their submission meets USENIX's guidelines should contact the program chairs, hotpar09chairs @usenix.org, or the USENIX office, submissionspolicy @usenix.org.

Papers accompanied by nondisclosure agreement forms will not be considered. Accepted submissions will be treated as confidential prior to publication on the USENIX HotPar '09 Web site; rejected submissions will be permanently treated as confidential.