HotPower 2013 Call For Papers

HotPower'13: 2013 Workshop on Power-Aware Computing and Systems will be co-located with the 24th ACM Symposium on Operating Systems Principles (SOSP) on November 3rd, 2013. HotPower'13 is sponsored by USENIX, the Advanced Computing Systems Association.

Overview

HotPower provides a forum in which to present the latest research and to debate directions, challenges, and novel ideas about building energy-efficient computing systems. In addition, researchers coming to these issues from fields such as computer architecture, systems and networking, measurement and modeling, language and compiler design, mobile computing, and embedded systems will have the opportunity to interact with one another, explore cross-cutting ideas, and develop new perspectives on the problem domain.

The workshop seeks submissions of early-stage research and novel ideas that will generate interesting discussion, e.g., unconventional, promising ideas with early results. Submissions about firsthand experience, lessons, challenges and problems from building and operating real-world systems are also welcome.

Important Dates

Paper submissions due: ~~July 20~~, July 26th, 2013, 8:59 p.m. PDT; Notification to authors: August 20, 2013; Final papers due: September 13, 2013

Workshop Organizers

Program Co-Chairs

Kushagra Vaid, Microsoft
Lin Zhong, Rice University

Steering Committee Chair

Feng Zhao, Microsoft Research

Program Committee

Rajesh Balan (Singapore Management University)
Trishul Chilimbi (Microsoft Research)
Prabal Dutta (University of Michigan)
Mian Dong (Samsung Research-America)
Ben Greenstein (Google)
Charlie Y. Hu (Purdue University)
Engin Ipek (University of Rochester)
Ravishankar Iyer (Intel)

Benjamin Lee (Duke University)
Yunxin Liu (Microsoft Research-Asia)
Amir Michael (Facebook)
Abhinav Pathak (Apple)
Vijay Janapa Reddi (University of Texas at Austin)
Leendert van Doorn (AMD)
Thomas Wenisch (University of Michigan)

Topics

Topics of interest in energy-efficient computing include but are not limited to:
- Instrumentation, measurement, and measurement studies
- Metrics, benchmarks, interfaces
- Performance, energy, and other resource trade-offs; energy complexity
- Software optimization, application design
- System-level optimization, cross-layer coordination
- Scheduling, run-time adaptation, feedback control
- Processor, network, storage, hardware components and architecture
- Reliability and power management
- Energy-aware control of cyber-physical systems, such as buildings and transportation systems
- Application to multi-core, datacenter, and embedded systems
- Green energy sources and their implications
- Technologies for and management of energy storage
- Life-cycle analysis

Submission Instructions

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.

Simultaneous submission of the same work to multiple venues, submission of previously published work, or plagiarism constitutes dishonesty or fraud. Papers meeting any of these criteria will be rejected. Authors uncertain whether their submission meets these guidelines should contact the program chairs.

Papers accompanied by nondisclosure agreement forms will not be considered. Accepted submissions will be treated as confidential prior to publication on the HotPower'13 Web site; rejected submissions will be permanently treated as confidential.