

Eighth Workshop on Hot Topics in System Dependability (HotDep '12)

Sponsored by USENIX, the Advanced Computing Systems Association

<http://www.usenix.org/hotdep12>

October 7, 2012

Hollywood, CA

HotDep '12 will be co-located with the 10th USENIX Symposium on Operating Systems Design and Implementation (OSDI '12), which will take place October 8–10, 2012.

Important Dates

Paper submissions due: June 11, 2012, 11:59 p.m. PDT

Notification to authors: July 30, 2012

Final papers due: September 10, 2012

Workshop Organizers

Program Co-Chairs

Michael J. Freedman, *Princeton University*

Neeraj Suri, *TU Darmstadt*

Program Committee

Marcos K. Aguilera, *Microsoft Research Silicon Valley*

Yair Amir, *Johns Hopkins University*

Christian Cachin, *IBM Research—Zurich*

Allen Clement, *Max Planck Institute for Software System*

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Dejan Kostić, *École Polytechnique Fédérale de Lausanne*

Cristina Nita-Rotaru, *Purdue University*

Mike Reiter, *University of North Carolina*

Robbert van Renesse, *Cornell University*

Bernard Wong, *University of Waterloo*

Overview

Authors are invited to submit papers to the Eighth Workshop on Hot Topics in System Dependability (HotDep '12). The workshop will be co-located with the 10th USENIX Symposium on Operating Systems Design and Implementation (OSDI '12), which will be held October 8–10, 2012, in Hollywood, CA.

HotDep '12 will bring forth cutting-edge research ideas spanning the domains of systems and fault tolerance/reliability, drawing from the two associated research communities (i.e., researchers who attend traditional “dependability” conferences such as DSN and ISSRE, and those who attend “systems” conferences such as OSDI, SOSP, and EuroSys). The workshop will build links between the two communities and serve as a forum for sharing ideas and challenges. HotDep has been alternating between DSN and OSDI since 2005; for previous HotDep workshops, see <http://www.hotdep.org/>.

Paper Scope and Topics

Possible topics include but are not limited to:

- Dependability in large-scale systems, despite either crash or Byzantine failures
- Dependability in emerging platforms, such as handheld, datacenters, or cloud computing

- Dependability in the software stack, including operating systems, network protocols, runtime systems, etc.
- Fault and intrusion tolerance, self-healing systems, and continuous operation throughout recovery
- Techniques for better detection, diagnosis, or recovery from failures
- Forensic tools for use by administrators and programmers after failure or attack
- Tools/concepts/techniques/metrics for quantifying or optimizing trade-offs among dependability, availability, performance, correctness, resource utilization, and security

Authors should consider that the workshop aims to improve interactions among researchers from the dependability and systems communities, and thus the review process favors papers that are likely to generate healthy debate. Example submissions include but are not limited to:

- Innovative techniques, algorithms, or protocols for building dependable/secure systems
- Reconsideration of existing problems using novel approaches with demonstrable benefits
- Description of an emerging problem and potential solutions
- Refuting old, entrenched perspectives on dependability
- Advocacy, critical or controversial papers if based on a technical foundation

Deadline and Submission Instructions

Authors are invited to submit position papers by 11:59 p.m. PST on June 11, 2012. This is a firm deadline—no extensions will be given.

Submitted position papers must be no longer than 5 pages (8.5" x 11") of text including figures and tables, and 1 additional page solely for references. Your paper should be typeset in two-column format in 10 point type on 12 point (single-spaced) leading, with the text block being no more than 6.5" wide by 9" deep. Author names and affiliations should appear on the title page.

Papers must be in PDF and must be submitted via the Web submission form on the HotDep '12 Call for Papers Web site, <http://www.usenix.org/hotdep12/cfp>.

Authors will be notified of acceptance by July 30, 2012. Authors of accepted papers will produce a final PDF by September 10, 2012. All papers will be available online to registered attendees before the workshop. If your accepted paper should not be published prior to the event, please notify production@usenix.org. The papers will be available online to everyone beginning on the day of the workshop.

Simultaneous submission of the same work to multiple venues, submission of previously published work, or plagiarism constitutes 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. See the USENIX Conference Submissions Policy at <http://www.usenix.org/submissionspolicy>. Questions? Contact your program co-chairs, hotdep12chairs@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 HotDep '12 Web site; rejected submissions will be permanently treated as confidential.

Registration Materials

Complete program and registration information will be available on the HotDep '12 Web site in August 2012.