HotEdge '18: USENIX Workshop on Hot Topics in Edge Computing

July 10, 2018 • Boston, MA, USA

Sponsored by USENIX, the Advanced Computing Systems Association

HotEdge '18 will be co-located with the 2018 USENIX Annual Technical Conference, July 11–13, 2018.

Important Dates

- Paper submissions due: **Tuesday, March 20, 2018, 11:59 pm PDT**
- Notification to authors: **Tuesday, April 24, 2018**
- Final paper and poster abstract files due: **Tuesday, May 22, 2018**

Conference Organizers

Program Co-Chairs
Irfan Ahmad, *CachePhysics*
Swaminathan Sundararaman, *Parallel Machines*

Program Committee
TBA

Steering Committee
Irfan Ahmad, *CachePhysics*
Jason Flinn, *University of Michigan*
Amit Gupta, *Cisco Systems*
Casey Henderson, *USENIX Association*
Mahadev Satyanarayanan, *Carnegie Mellon University*
Weisong Shi, *Wayne State University*
Swaminathan Sundararaman, *Parallel Machines*

Overview

The goal of HotEdge is to bring together researchers and practitioners from academia and industry working on edge computing to share their ideas, discuss research/work in progress, and identify new/emerging "hot" trends in this important emerging area. The demand for of low-latency offloading infrastructure for upcoming applications (such as augmented reality, wearable cognitive assistance, sensor data processing) and the emergence of Internet of Things (IoT) are pushing computing again towards disaggregation. There are many challenges in design, implementation, and deployment of different aspects of edge computing: infrastructure, networking, security, applications, etc. HotEdge would like to foster discussions in these areas.

The HotEdge '18 program committee is placing a strong emphasis on soliciting early-stage ideas. This workshop is specifically designed for novel ideas to get early feedback. Submissions will be judged on their novelty, topical relevance, and likelihood of generating discussions and debate. A good way to think about this is that if you are only a few months away from submitting to SEC, ICDCS, InfoCom, NSDI, OSDI, or SOSP, etc., you are probably already past the sweet spot for HotEdge. To promote research in practical use cases, we plan to dedicate a part of the program to submissions relating to novel applications of edge computing.

Topics of Interest

HotEdge '18 welcomes innovative submissions in the broad areas of infrastructure, applications, security, availability, and interoperability in edge computing. Specific areas are below but are not exhaustive:

- Edge-enabled applications
- Edge computing infrastructure and applications
- Edge-optimized heterogeneous architectures
- Edge-based analytics (including machine learning)
- Edge-based storage systems and databases
- Security and privacy in edge computing
- Interoperability between edge and cloud computing
- Fault-tolerance using edge computing
- Programming models for edge computing
- Quality of Service in edge computing

Workshop Details

HotEdge '18 will be a one-day workshop that is divided into two parts. The first part of the day will be invited talks from both academia and industry to discuss the evolution, trends, practical challenges and research opportunities in edge computing. The second part of the workshop will feature the academic program, including paper and poster presentations.

All accepted papers and abstracts of accepted posters will be published online. At least one author of each accepted paper or poster must attend the workshop to present the paper or poster. Presentation details and guidelines will be communicated to the authors of the accepted papers and posters. Note that authors of accepted papers will also be expected to prepare a poster summarizing their submission to be presented as part of a HotEdge '18 poster session.

Submission Instructions

Submission instructions will be available soon.

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