



School of Engineering

The 33rd International Conference on Massive Storage Systems and Technologies (MSST 2017)



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Call for Participation and Papers



MSST (2017), as is our custom, will dedicate five days to computer-storage technology, including a day of tutorials, two days of invited papers, two days of peer-reviewed research papers, and a vendor exposition. The conference will be held, once again, on the beautiful campus of Santa Clara University, in the heart of Silicon Valley, May 15-19, 2017.

Presentations (May 16 - 17, 2016)

The Program Committee requests presentation proposals on issues in designing, building, maintaining, and migrating large-scale systems that implement databases and other kinds of large, typically persistent, web-scale stores (HSM, NoSQL, key-value stores, etc.), and archives at scales of tens of petabytes to exabytes and beyond. Potential presentation topics include but are not limited to:

- Web-scale, corporate, and exa-scale HPC storage systems in the 10+ Petabyte to Exabyte and beyond size, which may require high-bandwidth or transactional access, and which may require rapid growth and occasional wholesale data migration;

- Archive design and implementation for large and/or long-lived stores;
- Issues around hardware or software components (e.g., media such as disk, tape, or flash; NoSQL databases; open source clustering tools, etc.) that relate to designing very large scale storage systems.

During the [2016 MSST presentation track](#), sessions included the following:

- Application- and Workload-Specific Workflows;
- Leveraging Disk for Large-Scale, Long-Term Storage Applications;
- Trends in FLASH Technology Relevant to Large-Scale Systems;
- Evolving Semantics for Object Storage;

Submit presentation proposals through our contact page at:

<http://storageconference.us/Contact>

Research Papers (May 18 - 19, 2016)

The Research Program Committee requests the submission of research papers on the implementation, design, and analysis of file and storage systems. Specific areas of interest include, but are not limited to:

- Exascale storage architecture and design
- Parallel and distributed file systems
- Designs of integrating parallel programming and distributed storage systems
- Storage security and privacy
- Storage provenance
- Scalable metadata management
- Techniques for building extremely scalable and distributed storage systems
- Cloud storage systems and global-scale storage
- Performance modeling and analysis of storage systems
- Experiences with real-world systems and data storage challenges
- Data protection and recovery
- Data archiving
- Data compression and deduplication
- Long-term data preservation and management
- Storage for virtualized environments

- Disk and flash based primary and cold storage systems
- File systems for shingled magnetic recording hard disk drives
- File systems for solid state disk drives
- Tiered storage
- Storage virtualization
- Networked storage architectures
- New storage APIs: object storage, key-value stores, and others
- I/O stacks for low-latency storage devices
- Storage class memory devices and systems, such as phase change memory
- Storage solutions usability and consumability

As is traditional, MSST will solicit short (4-6 pages) and full (8-14 pages) papers. References are not included in page counts. Paper formats should adhere to the IEEE conference templates available at:

https://www.ieee.org/conferences_events/conferences/publishing/templates.html

Submission site: <https://easychair.org/conferences/?conf=msst2017>

Important Dates

- Research Track Paper Submission Deadline: Fri, ~~February 17~~ February 24, 2017
- Research Track Notification Due: Fri, March 31, 2017
- Research Track Final Version Due: Fri, April 28, 2017
- Conference: May 15th - May 19th, 2017
- Research Track: May 18th - May 19th, 2017

Research Program Co-chairs

- Dr. Thomas Schwarz, Marquette University
- Dr. Aleatha Parker-Wood, Center for Advanced Machine Learning at Symantec