

## | About the Conference

The 17th ACM Workshop on Hot Topics in Storage and File Systems (HotStorage '25), will take place in person on July 10th and 11th, 2025 in Boston, MA, a day after the 19th USENIX Symposium on Operating Systems Design and Implementation (OSDI '25) and the 2025 USENIX Annual Technical Conference (ATC '25). The workshop is sponsored by ACM, runs in cooperation with USENIX, and its proceedings will appear in the ACM Digital Library.

### Important Dates:

- Paper submissions due: Thursday, March 27, 2025, AoE
- Notification to authors: Friday, May 16, 2025, AoE
- Final papers due: Thursday, June 5, 2025, AoE

### Overview:

The HotStorage workshop provides a forum for cutting-edge storage research, a place where academic researchers and industry practitioners can discuss new opportunities and challenges in storage technology. Submissions should propose new research directions, explore non-traditional approaches, or report on noteworthy or

### Important Dates

 **JUL 10** CONFERENCE DATE  
**July 10-11, 2025**

counterintuitive learnings and experience in emerging areas. Submissions will be judged on their originality, technical merit, topical relevance, and the likelihood of leading to insightful discussions that will influence future storage systems design and applications.

In keeping with the goals of the HotStorage workshop, the review process will favor submissions that are forward-looking and open-ended. If you are only a couple of months away from submitting to FAST, NSDI, EuroSys, VLDB, OSDI, SOSP, ASPLOS, SoCC, etc. you are probably already past the sweet spot for HotStorage. If you have a forward-looking or unorthodox idea or new research, and some evidence or early working system to support your view, but still have open questions, please consider bringing your work to HotStorage. The program committee will also welcome position papers that solicit discussion on controversial topics, introduce emerging methods and paradigms, or call out for new research directions.

Topics of Interest:

HotStorage '25 welcomes innovative submissions in the broad areas of storage, data management, data applications, and cross-disciplinary topics that relate to these. Some specific areas are listed below but the list is not exhaustive:

- Application- and workload-specific storage
- Archival and backup storage
- Deduplication and compression
- Caching, tiering, and replication

- Cloud storage
- Disaggregated and distributed storage
- Energy-efficient storage
- File systems
- Flash/SSD
- Key-value and NoSQL stores
- Memory-centric storage systems
- Mobile and edge device (sensors, home, and IoT, etc.) storage
- New storage hardware, DPUs, persistent memory
- Next generation storage (DNA, glass)
- Performance modeling and prediction for storage
- Programming models and compilers for storage
- Quality of service for storage
- Security and privacy of storage
- Storage reliability, erasure coding
- Storage virtualization
- Storage systems for ML and applying ML to storage systems

#### What to Expect from the Workshop:

HotStorage '25 will be a two-day in-person workshop with presentations of each paper followed by a discussion. At least one author of each accepted paper must attend the workshop to participate in discussions and answer questions; if you have any questions or concerns about attending the workshop as a presenting author, please contact the program co-chairs via [chairs25@hotstorage.org](mailto:chairs25@hotstorage.org) to discuss. Presentation details and guidelines will be communicated to the authors of the accepted papers.

#### Submission Instructions:

Submissions must be no longer than five (5) two-

column pages excluding references and appendices and should be submitted electronically via the submission form at <https://hotstorage25.hotcrp.com/>.

Indicating Paper Type. Authors should indicate one of two paper types in both the submission and on HotCRP: Position or Regular. Paper titles should be prefixed by their type in the submission. For example, "Position: XYZ". Position titles should explicitly state and argue for a position; the more interesting or forward-looking the position, the better the paper is a match for HotStorage.

Position papers may also be used to put forward a vision for storage systems. Regular papers might contain a new and interesting result that is at an early stage and not yet ready for a conference submission.

Papers should be submitted electronically as a PDF. All text and figures must fit within a 7"x9" text block, centered on the page, using two columns with .33 inches of separation. The paper should be typeset using a 10-point font (Times New Roman or similar) with a 12-point (single-spaced) leading.

Please follow paper formatting instructions. The author kit, which contains the Latex style and template, is available [here](#). Please ensure that your paper satisfies all the above requirements for content and formatting before submission; if you have a question about any of these issues, please email the program chairs [chairs25@hotstorage.org](mailto:chairs25@hotstorage.org).

Additional instructions regarding camera-ready versions of accepted papers will be sent directly to

the corresponding authors and will appear online closer to the deadline.

### Originality

Submissions to HotStorage '25 may not be under consideration for any other venue. Simultaneous submission of the same work to multiple venues, submission of previously published work, or plagiarism constitutes dishonesty or fraud. HotStorage, like other scientific and technical conferences and journals, prohibits these practices and may take action against authors who have committed them. We are following the ACM Prior Publication and Simultaneous Submissions Policy. Questions? Contact the program chairs.

### Anonymizing:

The review process is double-blind. Authors must not be identified in the submissions, either explicitly or by implication. When it is necessary to cite your own work, cite it as if it were written by a third party. Do not say "reference removed for blind review." Papers from industry may identify the company or the product. For example, it is acceptable to talk about Company X's Product Y (X and Y need not be blinded). Papers accompanied by nondisclosure agreement forms will not be considered. Accepted submissions will be treated as confidential prior to publication on the HotStorage '25 website; rejected submissions will be permanently treated as confidential. 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 the chairs. The papers will be

available online to everyone beginning on the first day of the workshop.

A paper submitted to HotStorage can be submitted simultaneously to Arxiv, with some changes. We would like the authors to make an honest effort to preserve anonymity. Please ensure the HotStorage submission is using a different title and a different system name from the Arxiv version. It would be useful to let the chairs know if there is an Arxiv paper so that we can intervene if PC members find it accidentally and think the submission is plagiarizing the Arxiv paper.

#### Declaring and Avoiding Conflicts:

When registering a submission, all its co-authors must provide information about conflicts with the HotStorage '25 program committee (PC) members. You are conflicted with a member if: (1) you are currently employed at the same institution, have been previously employed at the same institution within the past two years, or are going to begin employment at the same institution within six months; (2) you have a past or present association as thesis advisor or advisee (no time limit); (3) you have collaborated on a project, publication, grant proposal, or editorship within the past two years; or (4) you have spouse or first-degree relative relations.

Do not declare a conflict if you discussed your research work with a PC member before the HotStorage '25 PC lists were publicized. Do not declare a conflict merely because you wish to avoid a review from a specific committee member;

such unethical behavior might result in immediate rejection. All conflicts will be reviewed to ensure the integrity of the reviewing process.

Authors and others are prohibited from directly or indirectly communicating with any HotStorage '25 PC member about any potentially submitted paper. All requests should be made exclusively to chairs. Violations of these guidelines may seek remedies as stipulated by the ACM.

We look forward to receiving your submissions!

Ali Anwar (University of Minnesota) and Joo-Young Hwang (Samsung)  
HotStorage '25 Program Chairs  
chairs25@hotstorage.org

### **TOPICS OF INTEREST**

2 topics

Research papers are invited in, but not limited to, the following areas:

Computer Science  
& Software  
Engineering

Uncategorized