Message from the OSDI '22 Program Co-Chairs

Dear colleagues,

Welcome to the 16th USENIX Symposium on Operating Systems Design and Implementation (OSDI '22).

This year OSDI '22 is co-located with the 2022 USENIX Annual Technical Conference (ATC '22). We are holding the joint conference in a hybrid format, with the option of virtual or physical participation. We are excited to return to a physical event, in Carlsbad, California, after a two-year hiatus. Due to Covid, the previous two instances of OSDI (2020 and 2021) were held only virtually, and we have made the best of it. That has made OSDI more accessible but less interactive. This year, with the hybrid format, we hope to get the best of both worlds. We have encouraged presenters to attend in person if they can, while attendants have the option of joining in person or virtually.

OSDI '22 received 253 submissions and accepted 49 of them for a 19.4% acceptance rate. As in the last OSDI, we did not allow the program chairs to submit papers. Due to the historically high number of submissions, we recruited a large PC of 76 members in addition to the two chairs. PC members included academics, industrial researchers, and industrial practitioners. We also recruited a few additional people to serve as an external review committee to provide additional coverage of expertise if necessary. We are grateful to all the committee members for their hard work that was essential to the success of OSDI '22.

The program committee reviewed the submissions in two rounds. In the first round, papers received three reviews. About 29% of papers were then rejected based on these reviews, while the others advanced to the second round. In the second round, papers received at least two additional reviews and, in some cases, we solicited additional input from expert external reviewers. We discussed these papers online and reached a decision for another 52% of the submitted papers. The remaining papers were discussed and decided over a three-day online PC meeting. Each of the accepted papers was shepherded by a PC member to help the authors address the reviewers' comments in the camera-ready version. In total, we produced over 1130 reviews and 2900 online comments, representing an enormous amount of work. We estimate the human cost of evaluating the papers to be above $1M based on an average of 4.5 hours per review (to read the paper, write the report, and discuss it in the group) and a cost of $200/hour per reviewer. This is a significant price to the community and as such we must optimize it going forward while maintaining the high quality that OSDI is known for. Toward that goal, OSDI '22 experimented with some approaches that make better use of the collective effort.

In particular, OSDI '22 introduced a change to the reviewing process: the option to revise and resubmit. This option was given to a small number of papers that were rejected but that reviewers felt would have been accepted if authors could address a list of objective issues. This list was provided to authors so they can work on a revision of the paper. The revision will then be re-evaluated by the same reviewers if possible, for publication in OSDI next year, OSDI '23, based on how well the authors address the issues on the list. This year, only six papers were given the option to revise-and-resubmit but this number should increase in future years if OSDI continues with this practice. All six papers have decided to resubmit. These revise-and-resubmit papers are now under evaluation.

After finalizing the program, we proceeded to decide the Jay Lepreau Best Paper Awards. We asked all PC members to nominate papers. We next created a short list based on the nominations, the reviews, and the paper themselves. We then selected a small set of PC members that were not conflicting with any of the papers in the short list, and we asked them to score each paper. Based on the nominations, reviews, and scores, the best papers were selected.

OSDI '22 had an artifact-evaluation process organized by three co-chairs: Anuj Kalia, Neeraja J. Yadwadkar, and Chengyu Zhang. Of the 49 papers accepted to OSDI '22, 35 had artifacts submitted by their authors. Of those 33 earned the "Available" badge, 31 artifacts earned the "Functional" badge and 27 earned the most challenging "Results Reproduced" badge. For more details, see the Message from the OSDI '22 Artifact Evaluation Committee Co-Chairs.

OSDI '22 had a poster submission process organized by Natacha Crooks and Adriana Szekeres. Submissions were open to all, and authors of papers accepted to OSDI '22 were encouraged to submit a poster. We accepted 52 posters. For more details, see the Message from the OSDI '22 Poster Co-Chairs.

As PC co-chairs, we rely on many people to make OSDI '22 a success, to whom we are grateful. We thank the authors for choosing to submit their work to OSDI. We thank the program committee and external reviewers for their arduous work in reviewing and discussing the submissions. We thank the co-chairs and all members of the Artifact Evaluation Committee, who conducted thorough evaluations. We also thank the co-chairs of the poster committee, who identified high-quality posters for the conference. We thank Jiri Schindler and Noa Zilberman, the program co-chairs of ATC '22, for coordinating with us efficiently, productively, and enjoyably. We thank the USENIX staff, who have been fundamental in organizing OSDI '22 as we transition to a hybrid format. The logistics of the online PC meeting were facilitated by PhD student Daniel Amir, whose assistance we greatly appreciate. Finally, OSDI wouldn't be what it is without our attendees. Thank you for listening to our speakers, asking challenging and insightful questions, and sharing your ideas with others.

We hope you will find OSDI '22 interesting, educational, and inspiring!

Marcos K. Aguilera, *VMware*
Hakim Weatherspoon, *Cornell University and Exotanium, Inc.*
OSDI '22 Program Co-Chairs