

Call for Papers: 14th Workshop on Programming Languages and Operating Systems (PLOS 2026)

September 29, 2026, Prague, Czechia
Co-organized with SOSP 2026

<https://plos-workshop.org/2026/>

Important Dates (tentative)

Paper submission deadline:	May 29, 2026
Notification of acceptance:	July 3, 2026
Final papers due:	August 10, 2026
Workshop:	September 29, 2026

Overview

Historically, operating system and programming language development went hand-in-hand. Challenges in one area were often approached using ideas/techniques developed in the other, and advances in one area enabled new capabilities in the other. Today, although the systems community at large retains an iron grip on C, modern programming language ideas continue to spark innovations in OS design and construction. Conversely, the systems field continues to provide a wealth of challenging problems and practical results that should lead to advances in programming languages, software designs, and idioms.

This workshop will bring together researchers and developers from the programming language and operating system domains to discuss recent work at the intersection of these fields. It will be a platform for discussing new visions, challenges, experiences, problems, and solutions arising from the application of advanced programming and software engineering concepts to operating systems construction, and vice versa.

Suggested paper topics include, but are not restricted to:

- domain-specific and type-safe languages for the OS;
- the design of language-specific unikernels;
- language-based approaches to crosscutting system concerns, such as security and run-time performance;
- PL support for system verification, testing, and debugging;
- synthesis of OS code, including AI/LLM-based approaches;
- static/dynamic OS configuration and specialization;
- PL support for OS integration of modern hardware, including NVM, HBM, FPGAs, accelerators, RDMA, and new hardware isolation mechanisms;
- OS abstractions and techniques in language runtimes;
- verification and static analysis of OS components;
- critical evaluations of new programming language ideas in support of OS construction; and
- experience reports on applying new language techniques in commercial OS settings.

Agenda

The workshop will be a highly interactive event with an agenda designed to promote focused and lively discussions. Part of the workshop program will be based on paper presentations. PLOS welcomes research, experience, and position papers; papers describing industrial experience are particularly encouraged. The set of accepted papers will be made available to registered attendees in advance of the workshop. Participants should come to the work-

shop prepared with questions and comments.

Submission Guidelines

All papers must be written in English and should be formatted in the two-column ACM article style (<https://www.acm.org/publications/proceedings-template>), using the options `sigplan`, `anonymous`, `10pt`. The CCS Concepts, Keywords, and ACM Reference Format sections are not required in submissions. Submissions are *double-blind*: author names and affiliations should not be included.

Submissions must not be more than six (6) pages in length, using 10-point font. The bibliography does not count towards the page limit. The page limit will be strictly enforced. They will be reviewed by the workshop program committee and designated external reviewers. Papers will be evaluated based on technical quality, originality, relevance, and presentation. The submission website is: <https://plos26.hotcrp.com/>.

By default, accepted papers will be published electronically in the ACM Digital Library. The authors of accepted papers to be included in the ACM Digital Library will be required to sign ACM copyright release forms. *The publication of a paper in the PLOS workshop proceedings is not intended to replace future conference publication.* ACM has made a transition towards *open access* publications. Article Processing Charges will be \$250 (ACM/SIG members) or \$350 (non-members). Papers with a corresponding author from an ACM Open member institution will not be subject to APCs.

Program Committee

Reto Achermann, Technical University of Munich
Nathan H. Burow, MIT Lincoln Lab
Anton Burtsev, University of Utah
Matteo Busi, Foscari University of Venice
Michael Engel, University of Bamberg
Frantisek Farka, Barkhausen Institute
Chris Hawblitzel, Microsoft Research
Michael Homer, Victoria University of Wellington
Sang-Hoon Kim, Ajou University
Michael Klemm, AMD
Stefan Lankes, RWTH Aachen University
Hui Lu, University of Texas at Arlington
Tom Spink, University of St Andrews
Xiaoguang Wang, University of Illinois Chicago
Carsten Weinhold, Barkhausen Institute (*chair*)

Organizing Committee

Antonio Barbalace, The University of Edinburgh
Stefan Lankes, RWTH Aachen University
Pierre Olivier, The University of Manchester
Olaf Spinczyk, Osnabrück University