

CONFERENCE WEBSITE: <https://permavost.github.io>

| About the Conference

PERMAVOST 2025: CALL FOR PAPERS

5th Workshop on Performance EngineeRing,
Modelling, Analysis, and VisualizatiOn STrategy
In conjunction with ACM HPDC 2025, Notre Dame,
IN, USA

Submission deadline ----- March 1, 2025,
AoE

Notification ----- April 11, 2025

Camera ready deadline ----- April 26, 2025,
AoE

Workshop ----- July 20, 2025

Workshop website: <https://permavost.github.io/>

Scope

Modern software engineering is becoming increasingly complex. Especially in high-performance computing (HPC), with cutting-edge

Important Dates

JUL 20 CONFERENCE DATE
July 20, 2025

infrastructure and novel problems of unprecedented scale, monitoring and analyzing the performance of such applications and infrastructure has become essential for their improvement, design, and maintenance. In the current era, the development and maintenance of these applications are no longer the sole responsibility of computer scientists. Instead, they involve a diverse group of experts, including mathematicians, scientists, and engineers from various disciplines. Many of these developers lack formal computer science training and increasingly rely on tools created by computer scientists to analyze and optimize their code. This growing interdependence highlights the need for a collaborative forum where different stakeholders can work together effectively.

Topics of Interest

PERMAVOST aims to bring together key stakeholders -- application developers, domain scientists, performance analysts, and tool developers --to collaborate and bridge gaps in the following areas:

- * Key metrics, patterns, and performance pitfalls: Identifying strategies to recognize and leverage performance insights to enhance application efficiency.
- * Emerging challenges: Addressing issues arising from new computing architectures, programming paradigms, novel scientific problems, and the processing of data at varying scales.
- * Usability in performance tools: Exploring how modern usability design principles can be

integrated into performance analysis tools to better support their users.

* Broad-spectrum accessibility: Developing analysis methods and methodologies that cater to users with varying levels of HPC expertise.

Tracks

We solicit papers which encompass the following topics of interest, but are not limited to:

Performance analysis and modeling of real-world applications

- * Data visualization for performance analysis
- * Usability studies and user-centric design of HPC tools
- * Inefficiencies in programming patterns and computing architectures
- * Patterns, anomaly detection, and performance characterization in HPC applications
- * Performance engineering strategies, methodologies, and use cases
- * Human-computer interfaces for performance data exploration
- * Energy efficiency and management in performance analysis and engineering
- * Performance analysis in emerging HPC domains, including Artificial Intelligence, Machine Learning, Quantum Computing, Containers, and Cloud computing

Format and Proceedings

The length of the paper is 5 pages, including the bibliography. Each submission will undergo a

minimum of three single-blind peer reviews.
Review criteria will include the originality,
technical soundness, potential impact,
significance, and quality of presentation. The
papers must be submitted online through HotCRP
in PDF using the ACM master template format.
Accepted papers will be published Open Access in
the ACM Digital Library with no additional fee, as
part of the workshop proceeding.

We look forward to your contributions and
participation in the PERMAVOST workshop at ACM
HPDC this July!

Sincerely,

Workshop General Chair

Ayesha Afzal - Erlangen National High Performance
Computing Center

Program Co-Chairs

Radita Liem - RWTH Aachen University and Sarah
Neuwirth - Johannes Gutenberg University Mainz

Publicity Chair

Georg Hager - Erlangen National High Performance
Computing Center

Program Committee

<https://permavost.github.io/index.html#organization>

Collaborator

Erlangen National High Performance Computing
Center

Contact

Please contact workshop general chair Ayesha
Afzal for any inquiries: ayesha.afzal@fau.de.

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