

Call for Papers

The 25th International Conference on Formal Engineering Methods (ICFEM 2024)

Hiroshima, Japan 2 ~ 6 December 2024

Conference HP: <https://icfem2024.info>

Important Dates:

Full Paper Submissions:

24 June 2024

Acceptance / Rejection Notification:

9 September 2024

Camera-ready Papers:

27 September 2024

Workshop/Tutorial Proposals: 5 July

2024

Conference Organizers

General Chair

Shaoying Liu

Hiroshima University, Japan

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Leadership Appreciation Chair

Shengchao Qin

Xidian University, China

Background and Objectives:

Since it was started in Hiroshima, Japan in 1997, ICFEM has provided a forum for both researchers and practitioners to discuss and exchange their experience and results in research on theories, methods, languages, and supporting tools for integrating formal methods into conventional software engineering technologies to provide more effective and efficient approaches to large-scale software engineering. The goal of this conference is to bring together industrial, academic, and government experts in both formal methods and software engineering to help advance the state of the art.

At its first return to Hiroshima since 1997, ICFEM 2024 will celebrate the 25th anniversary of the ICFEM conference series. Researchers, practitioners, tool developers, and users are all welcome to submit papers and participate in the conference. We look forward to your contributions and participation.

Scope and Topics:

Formal specification and modeling

Formal approaches to fault prevention and detection

Abstraction, refinement, and evolution

Formal verification and validation

Integration of formal methods and testing

Integration of formal methods and review

SAT/SMT solvers for software analysis and testing

Practical formal methods

Applications of formal methods

Formal approaches to software maintenance

Formal approaches to safety-critical system development

Formal approaches to security-critical system development

Supporting tools for formal methods

Formal methods for agile development

Formal methods for human-machine pair programming

Formal methods for AI Systems

Formal methods for Cyber-physical systems and IoT

Formal certification of products

Industrial case studies

Submission and Publication

Submissions to the conference must not have been published or be concurrently considered for publication elsewhere. Papers should be written in English. Regular papers should not exceed 18 pages and short papers should not exceed 12 pages in Springer LNCS format. In addition to paper submissions, we will also organize several tracks, including Doctoral Symposium, Industrial Applications, and Journal-First Presentations. All the details are available in the ICFEM 2024 homepage.

Cooperations

Pending