

# Call for Participation

## The 25<sup>th</sup> International Conference on Formal Engineering Methods (ICFEM 2024)

Hiroshima, Japan 2 ~ 6 December 2024

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

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### Background and Objectives:

Since its inception in Hiroshima, Japan, in 1997, ICFEM has provided a forum for both researchers and practitioners to discuss and exchange their experiences and results. The focus is on research in theories, methods, languages, and supporting tools for integrating formal methods into conventional software engineering technologies, aiming to offer more effective and efficient approaches to large-scale software engineering. The goal of this conference is to bring together experts from industry, academia, and government in both formal methods and software engineering to advance the state of the art. Returning to Hiroshima for the first time since 1997, ICFEM 2024 will celebrate the 25th anniversary of the ICFEM conference series. Researchers, practitioners, tool developers, and users are all welcome to participate in the conference. We look forward to your 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

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