

# Call for Papers

## The 25<sup>th</sup> 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

#### Program Chairs

Kazuhiro Ogata, JAIST, Japan

Meng Sun

Peking University, China

Dominique Méry

LORIA, Telecom Nancy, University of

Lorraine, France

#### Finance Chair

Fumiko Nagoy

Nihon University, Japan

#### Publicity Chairs

Yuting Chen, SJTU, China

Yamine Ait-Ameur

IRIT-ENSEEIH, Toulouse, France

#### Track-Organizing Chair

Weikai Miao, ECNU, China

#### Workshop/Tutorial Chair

Wuwei Shen

Western Michigan University, USA

#### Web Chair

Yuxiang Shang

Hiroshima University, Japan

#### Local Arrangement Chairs

Naoko Wakiya

Hiroshima Shudo University, Japan

Yanzhao Xia

Hiroshima University, Japan

#### 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 25<sup>th</sup> 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