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**Final Call for Papers**  
**ICFEM 2008**  
**10th International Conference on Formal Engineering Methods**  
**27-31 October 2008**  
[www.icfem2008.org](http://www.icfem2008.org)  
**Kitakyushu International Conference Center, Kitakyushu-City, Japan**  
<http://www.convention-a.jp/eng/cpg/con07.html>  
**Sponsored by ICFEM 2008 Organizing Committee**  
**Supported by Software Engineers Association of Japan (SEA),**  
**SEA SIGFM, VDM Consortium, IEEE Fukuoka Section,**  
**West Japan Industry and Trade Convention Association**

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Formal methods for development of computer systems have been extensively researched and studied. We now have a good theoretical understanding of how to describe what programs do, how they do it, and why they work. A range of semantic theories, specification languages, design techniques, and verification methods and tools have been developed and applied to the construction of programs of moderate size that are used in critical applications.

The challenge now is to scale up formal methods and integrate them into engineering development processes for the correct and efficient construction and maintenance of computer systems. This requires us to improve the state-of-the-art by researching effective approaches and techniques for integration of formal methods into industrial engineering practice, including new and emerging practice.

ICFEM 2008 aims to bring together those interested in the application of formal engineering methods to computer systems. Researchers and practitioners, from industry, academia, and government, are encouraged to attend, and to help advance the state of the art. We particularly encourage submissions that are aimed at a combination of conceptual and methodological aspects with their formal foundation and tool support. We are interested in work that has been incorporated into real production systems, and in theoretical work that promises to bring practical, tangible benefit.

**Area and Topics:** Any submission whose content is relevant to the area of formal engineering methods will be considered, but submissions whose subject matter is related to one of the following themes will be particularly welcome:

- Integrated methods and theories for different programming paradigms and design patterns
- Formal model-based development and code generation
- Formal methods for object and component systems
- Applications in model-driven and service-based architectures
- Abstraction and refinement
- Tool development and integration for system design and verification
- Integration of formal verification tools in CASE tools
- Techniques for specification, verification and validation
- Techniques and case studies for correctness by construction
- Experiments involving verified systems
- Specification-based inspection and testing
- Techniques and case studies for reverse engineering
- Applications in real-time, hybrid and critical systems
- Development methodologies with their formal foundations

**Paper Submissions:** Since ICFEM addresses a heterogeneous audience, potential authors are strongly encouraged to make their ideas as accessible as possible. In addition, reports of case studies should have a conceptual message, theory papers should have a clear link to application, and papers describing tools should include an account of practical results. The ICFEM 2008 Program Committee will select original technical papers for publication in the proceedings of the conference, which we expect to be published by Springer in its Lecturer Notes in Computer Science series. Papers should not exceed twenty pages in LNCS format.

**Submission Procedure:** Further information and instructions about submission can be found at the conference website

[www.icfem2008.org](http://www.icfem2008.org)

**Important Dates:**

Paper submission: **21 April 2008**

Tutorial and workshop proposals: **19 May 2008**

Notification of paper acceptance: **30 June 2008**

Notification of tutorial and workshop acceptance: **7 July 2008**

Final copy for proceedings: **28 July 2008**

Conference: **27-31 October 2008**

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