FM 2015 Call for Papers

20th International Symposium on Formal Methods

Oslo, Norway, 22–26 June 2015

`http://fm2015.ifi.uio.no`

Formal Methods 2015

FM 2015 is the twentieth in a series of symposia organized by Formal Methods Europe, an independent association whose aim is to stimulate the use of, and research on, formal methods for software development. The symposia have been notably successful in bringing together innovators and practitioners in precise mathematical methods for software and systems development, industrial users, as well as researchers. The FM symposia welcome original papers on research and industrial experience, proposals for workshops and tutorials, entries for the exhibition of software tools and projects, and reports on ongoing doctoral work.

General Chair

Einar Broch Johnsen, U. of Oslo, Norway

PC Chairs

Nikolaj Bjørner, Microsoft Research, US
Frank S. de Boer, CWI, NL

Invited Speakers

Elvira Albert, U. Complutense, Spain
Werner Damm, U. Oldenburg, DE
Valérie Issarny, INRIA, France
Leslie Lamport, Microsoft Research, US

Important Dates

Abstracts:	2. January 2015
Full papers:	9. January 2015
Notification:	13. March 2015
Conference:	24.–26. June 2015

Gustav Vigeland Park
Oslo, Norway

Topics and Scope

FM 2015 will have the goal of highlighting the development and application of formal methods. This includes uses of formal methods in a variety of disciplines such as medicine, biology, human cognitive modeling, human automation interactions and aeronautics, among others. FM 2015 particularly welcomes papers on techniques, tools and experiences in interdisciplinary frameworks, as well as on experience with practical applications of formal methods in industrial and research settings, empirical and experimental validation of tools and methods as well as construction and evolution of formal methods tools. The broad topics of interest for FM 2015 include but are not limited to:

- **Interdisciplinary formal methods:** techniques, tools and experiences demonstrating formal methods in interdisciplinary frameworks.

- **Formal methods in practice:** industrial applications of formal methods, experience with introducing formal methods in industry, tool usage reports, experiments with challenge problems. Authors are encouraged to explain how the use of formal methods has overcome problems, lead to improvements in design or provided new insights.

- **Tools for formal methods:** advances in automated verification and model-checking, integration of tools, environments for formal methods, experimental validation of tools. Authors are encouraged to demonstrate empirically that the new tool or environment advances the state of the art.

- **Formal methods in software and systems engineering:** development processes with formal methods, usage guidelines for formal methods, method integration. Authors are encouraged to evaluate process innovations with respect to qualitative or quantitative improvements. Empirical studies and evaluations are also solicited.

- **Theoretical foundations:** all aspects of theory related to specification, verification, refinement, and static and dynamic analysis. Authors are encouraged to explain how their results contribute to the solution of practical problems with methods or tools.

Paper submission

Paper submissions should be in Springer LNCS format and describe, in English, original work that has not been published or submitted elsewhere. Accepted papers will be published in the Symposium Proceedings, in Springer's **Lecture Notes in Computer Science.**

Papers should be submitted through the FM 2015 EasyChair web site: `http://www.easychair.org/conferences/?conf=fm2015`.

We solicit two categories of papers:

- **Regular Papers** should not exceed 15 pages in LNCS format.

- **Short papers**, including tool papers, should not exceed 6 pages.

These page limits do not include references. For more information, see `http://fm2015.ifi.uio.no`