

Message from the PC and General Chairs of FormaliSE 2018

Welcome to **FormaliSE 2018**, the FME International Conference on Formal Methods in Software Engineering. FormaliSE is a yearly conference on Formal Methods in Software Engineering, and it is organized by FME (Formal Methods Europe). After 5 years as a successful satellite workshop of ICSE, this year FormaliSE is co-located with ICSE (International Conference on Software Engineering) 2018 (<https://conf.researchr.org/home/icse-2018>).

The software industry has a long-standing and well-earned reputation for failing to deliver on its promises and it is clear that still nowadays, even considering the current technologies, the success of software projects is often not guaranteed. Many of the approaches used for large complex problems have not been able to assure the correct behavior of the delivered software, despite the efforts of the (often very qualified and skilled) software engineers involved. This is where formal methods have a significant opportunity. In fact, formal methods are intended to provide the means for greater precision in both thinking and documenting the preliminary stage of the software creation process. When done well, this can aid all aspects of software creation: user requirement formulation, implementation, verification/testing, and the creation of documentation.

However, after decades of research, and despite significant advancement, formal methods are still not widely used in industrial software development. We believe that software engineering might help in making formal methods more easily applicable in the development of software applications, integrable into development processes, and in making more evident the return on investment (ROI) in using them.

The main goal of the conference is to foster integration between the formal methods and the software engineering communities with the purpose to examine the link between the two more carefully than is currently the case.

The program features a keynote, Prof. Dr. Mariëlle Stoelinga, presentations of full and short research papers, and brief introductions and presentations of the research topic of four Ph.D. students sponsored by the sponsors below. FormaliSE received 22 high-quality submissions. Each submission went through a thorough reviewing process, with each paper receiving at least three reviews. After an intense discussion, we have accepted 8 long and 2 short papers. Consequently, the acceptance rate has been around 36% considering only full papers (45%, including also papers accepted as short). We would like to thank all authors for submitting their papers, and the Program Committee members for their help in the selection process.

Prof. Dr. Mariëlle Stoelinga (Radboud University Nijmegen & University of Twente, the Netherlands) will give a keynote presentation at FormaliSE 2018 titled Risk management of high tech systems.

We would like to thank the members of the ICSE Co-located events Organizing Committee.

Enjoy the conference!



General Co-Chair

Stefania Gnesi
ISTI-CNR, Italy



General Co-Chair

Nico Plat
Thanos, The Netherlands



Program Co-Chair

Paola Spoletini
Kennesaw State University, USA



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