

Preface

The International Conference on Formal Engineering Methods (ICFEM) is a forum for advances in formal engineering methods. Among other topics, ICFEM covers verification and validation, software engineering, formal specification and modeling, software security, and software reliability. Since its inception in 1997, ICFEM has served as a primary venue for formal methods theory that promises to bring practical and tangible benefits, as well as practical developments that have been incorporated into real production systems. In recent years, ICFEM has taken place in Tokyo (2016), Paris (2015), Luxembourg (2014), Queenstown (2013), Kyoto (2012), Durham (2011), and Shanghai (2010).

This volume contains the papers presented at 19th International Conference on Formal Engineering Methods (ICFEM 2017), held during November 13–15, 2017, in Xi'an, China. There were 80 submissions. Each submission was reviewed by three Program Committee (PC) members or external reviewers. The program consisted of 28 accepted papers and a paper and two abstracts from the three keynote speakers, David Rosenblum (National University of Singapore), Moshe Vardi (Rice University), and Wang Yi (Uppsala University). The conference was followed by four workshops: the 7th International Workshop SOFL+MSVL 2017, Workshop on Formal and Model-Driven Techniques for Developing Trustworthy Systems (FMMDD 2017), the First International Workshop on Handling Implicit and Explicit Knowledge in Formal System Development (IMPEX 2017), and the 11th NSFC-JSPS Joint Workshop on Formal Methods (NSFC-JSPS FM 2017).

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