

Preface

This volume contains the papers presented at SBMF 2015: the 18th Brazilian Symposium on Formal Methods. The conference was held in Belo Horizonte, Brazil, during September 21–22, 2015, as part of CBSoft 2015, the 6th Brazilian Conference on Software: Theory and Practice.

The Brazilian Symposium on Formal Methods (SBMF) is an event devoted to the dissemination of the development and use of formal methods for the construction of high-quality computational systems, aiming to promote opportunities for researchers with interests in formal methods to discuss the recent advances in this area. SBMF is a consolidated scientific-technical event in the software area. Its first edition took place in 1998, reaching the 18th edition in 2015. The proceedings of the last editions have been published in Springer’s *Lecture Notes in Computer Science* series as volumes 5902 (2009), 6527 (2010), 7021 (2011), 7498 (2012), 8195 (2013), and 8941 (2014).

The conference included two invited talks, given by Adenilso Simão (ICMC/USP, SP, Brazil) and Sumit Gulwani (Microsoft Research, WA, USA), who also taught at CBSoft tutorial “Programming by Examples.”

A total of 11 papers were presented at the conference and are included in this volume. They were selected from 25 submissions that came from 10 different countries: Brazil, Canada, France, Germany, Luxembourg, The Netherlands, South Africa, Sweden, the UK, and the USA. The Program Committee comprised 41 members from the national and international community of formal methods. Each submission was reviewed by at least three Program Committee members. The process of submissions by the authors, paper reviews, and deliberations of the Program Committee were all assisted by EasyChair.

We are grateful to the Program Committee, and to the additional reviewers, for their hard work in evaluating submissions and suggesting improvements. In particular, special thanks go to Christiano Braga, Juliano Iyoda, and Rohit Gheyi, co-chairs of previous editions of SBMF, who were always available to help us and to share their experience and wisdom. We are very thankful to the general chairs of CBSoft 2015, Eduardo Figueiredo (UFMG), Fernando Quintão (UFMG), Kécia Ferreira (CEFET-MG), and Maria Augusta Nelson (PUC-MG), who made everything possible for the conference to run smoothly.

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