

Formal Approaches to Software Testing

5th International Workshop, FATES 2005, Edinburgh, UK, July 11, 2005, Revised Selected Papers

This book constitutes the thoroughly refereed post-proceedings of the 5th International Workshop on Formal Approaches to Software Testing, FATES 2005, held in Edinburgh, UK, in July 2005 in conjunction with CAV 2005. The book presents 13 revised full papers together with 1 work-in-progress paper. These address formal approaches to testing and use techniques from areas like theorem proving, model checking, constraint resolution, program analysis, abstract interpretation, Markov chains, and various others.

Software testing is one of the most cost-intensive tasks in the modern software production process. The application of formal approaches to the testing process has gained steady attention in recent years. Effective and efficient test cases may be generated automatically from formal system models and specifications or be developed based on a formal analysis of the system. Formal approaches to testing use techniques from areas like theorem proving, model checking, constraint resolution, program analysis, abstract interpretation, Markov chains, and various others. These techniques are combined with traditional approaches to testing.

The workshop on Formal Approaches to Testing of Software (FATES) selected a number of high-quality submissions out of these fields for presentation at the workshop as well as inclusion in the workshop proceedings. The contributions show the state of the art in the application of formal methods in the testing process. The workshop had 38 submissions, of which 14 were accepted (13 full papers and 1 work-in-progress). In all, this proceedings volume collects the work of 38 authors from 12 countries. Each paper underwent 3 reviews, done by 36 reviewers. This has been the 5th successful workshop in the history of the FATES workshops. Previous workshops were held in Aalborg (Denmark) in 2001 and in Brno (Czech Republic) in 2002 as satellites of CONCUR, and in Montr al (Canada) in 2003 and Linz (Austria) in 2004 as satellites of the IEEE/ACM Conference on Automated Software Engineering (ASE). We would like to express our gratitude to all authors for their valuable contributions and to the Workshop Organizing Committee of the CAV 2005 conference.



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