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Andreas Ulrich (Ed.)

# Formal Approaches to Software Testing

Third International Workshop on Formal Approaches to Testing of Software, FATES 2003, Montreal, Quebec, Canada, October 6th, 2003

Series: Lecture Notes in Computer Science

Formal methods provide system designers with the possibility to analyze system models and reason about them with mathematical precision and rigor. The use of formal methods is not restricted to the early development phases of a system, though. The different testing phases can also benefit from them to ease the production and application of effective and efficient tests. Many still regard formal methods and testing as an odd combination. Formal methods traditionally aim at verifying and proving correctness (a typical academic activity), while testing shows only the presence of errors (this is what practitioners do). Nonetheless, there is an increasing interest in the use of formal methods in software testing. It is expected that formal approaches are about to make a major impact on emerging testing technologies and practices. Testing proves to be a good starting point for introducing formal methods in the software development process. This volume contains the papers presented at the 3rd Workshop on Formal Approaches to Testing of Software, FATES 2003, that was in affiliation with the IEEE /ACM Conference on Automated Software Engineering (ASE 2003). This year, FATES received 43 submissions. Each submission was reviewed by at least three independent reviewers from the program committee with the help of additional reviewers. Based on their evaluations, 18 papers submitted by authors from 13 different countries were selected for presentation at the workshop.

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