Analytic Methods in Systems and Software Testing
Ron S. Kenett (Editor), Fabrizio Ruggeri (Editor), Frederick W. Faltin (Editor)

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**DESCRIPTION**

A comprehensive treatment of systems and software testing using state of the art methods and tools

This book provides valuable insights into state of the art software testing methods and explains, with examples, the statistical and analytic methods used in this field. Numerous examples are used to provide understanding in applying these methods to real-world problems. Leading authorities in applied statistics, computer science, and software engineering present state-of-the-art methods addressing challenges faced by practitioners and researchers involved in system and software testing. Methods include: machine learning, Bayesian methods, graphical models, experimental design, generalized regression, and reliability modeling.

*Analytic Methods in Systems and Software Testing* presents its comprehensive collection of methods in four parts: Part I: Testing Concepts and Methods; Part II: Statistical Models; Part III: Testing Infrastructures; and Part IV: Testing Applications. It seeks to maintain a focus on analytic methods, while at the same time offering a contextual landscape of modern engineering, in order to introduce related statistical and probabilistic models used in this domain. This makes the book an incredibly useful tool, offering interesting insights on challenges in the field for researchers and practitioners alike.

- Compiles cutting-edge methods and examples of analytical approaches to systems and software testing from leading authorities in applied statistics, computer science, and software engineering
- Combines methods and examples focused on the analytic aspects of systems and software testing
• Covers logistic regression, machine learning, Bayesian methods, graphical models, experimental design, generalized regression, and reliability models

• Written by leading researchers and practitioners in the field, from diverse backgrounds including research, business, government, and consulting

• Stimulates research at the theoretical and practical level

Analytic Methods in Systems and Software Testing is an excellent advanced reference directed toward industrial and academic readers whose work in systems and software development approaches or surpasses existing frontiers of testing and validation procedures. It will also be valuable to post-graduate students in computer science and mathematics.

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🌟 ABOUT THE AUTHOR

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