Implementing Automated Software Testing
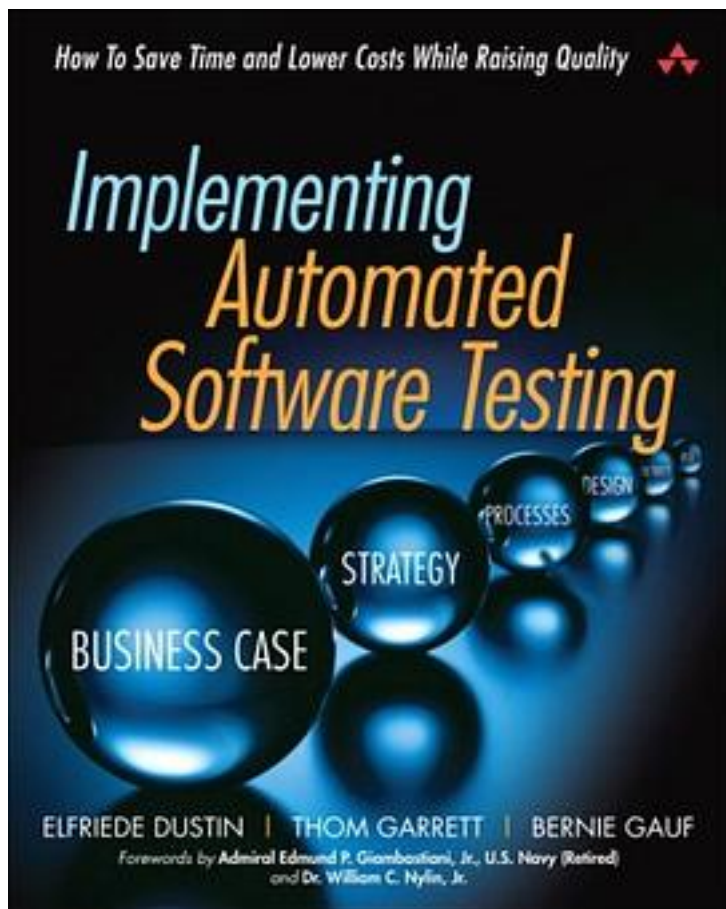
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出版者:Addison-Wesley Professional

出版时间:2009-03-14

装帧:Paperback

isbn:9780321580511

"This book fills a huge gap in our knowledge of software testing. It does an excellent job describing how test automation differs from other test activities, and clearly lays out what kind of skills and knowledge are needed to automate tests. The book is essential reading for students of testing and a bible for practitioners." -Jeff Offutt,

Professor of Software Engineering, George Mason University "This new book naturally expands upon its predecessor, Automated Software Testing, and is the perfect reference for software practitioners applying automated software testing to their development efforts. Mandatory reading for software testing professionals!" -Jeff Rashka, PMP, Coauthor of Automated Software Testing and Quality Web Systems Testing accounts for an increasingly large percentage of the time and cost of new software development. Using automated software testing (AST), developers and software testers can optimize the software testing lifecycle and thus reduce cost. As technologies and development grow increasingly complex, AST becomes even more indispensable. This book builds on some of the proven practices and the automated testing lifecycle methodology (ATLM) described in Automated Software Testing and provides a renewed practical, start-to-finish guide to implementing AST successfully. InImplementing Automated Software Testing, three leading experts explain AST in detail, systematically reviewing its components, capabilities, and limitations. Drawing on their experience deploying AST in both defense and commercial industry, they walk you through the entire implementation process-identifying best practices, crucial success factors, and key pitfalls along with solutions for avoiding them. You will learn how to: * Make a realistic business case for AST, and use it to drive your initiative * Clarify your testing requirements and develop an automation strategy that reflects them * Build efficient test environments and choose the right automation tools and techniques for your environment * Use proven metrics to continuously track your progress and adjust accordinglyWhether you're a test professional, QA specialist, project manager, or developer, this book can help you bring unprecedented efficiency to testing-and then use AST to improve your entire development lifecycle.

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