

# Effective GUI Test Automation: Developing an Automated GUI Testing Tool

Kanglin Li and Mengqi Wu



San Francisco • London

# Effective Gui Test Automation Developing An Automated Gui Testing Tool

**Lisa Crispin, Janet Gregory**



## **Effective Gui Test Automation Developing An Automated Gui Testing Tool:**

**Effective GUI Testing Automation** Kanglin Li,Mengqi Wu,2006-07-14 Have you tried using an automated GUI testing tool only to find that you spent most of your time configuring adjusting and directing it This book presents a sensible and highly effective alternative it teaches you to build and use your own truly automated tool The procedure you ll learn is suitable for virtually any development environment and the tool allows you to store your test data and verification standard separately so you can build it once and use it for other GUIs Most if not all of your work can be done without test scripts because the tool itself can easily be made to conduct an automatic GUI survey collect test data and generate test cases You ll spend virtually none of your time playing with the tool or application under test Code intensive examples support all of the book s instruction which includes these key topics Building a C API text viewer Building a test monkey Developing an XML viewer using XPath and other XML related classes Building complex serializable classes for GUI test verification Automatically testing executable GUI applications and user defined GUI controls Testing managed NET and unmanaged GUI applications Automatically testing different GUI controls including Label TextBox Button CheckBox RadioButton Menu Verifying test results Effective GUI Test Automation is the perfect complement to Li and Wu s previous book Effective Software Test Automation Developing an Automated Software Testing Tool Together they provide programmers testers designers and managers with a complete and cohesive way to create a smoother swifter development process and as a result software that is as bug free as possible

**Effective GUI Testing Automation** Kanglin Li,Mengqi Wu,2004-11-26 Have you tried using an automated GUI testing tool only to find that you spent most of your time configuring adjusting and directing it This book presents a sensible and highly effective alternative it teaches you to build and use your own truly automated tool The procedure you ll learn is suitable for virtually any development environment and the tool allows you to store your test data and verification standard separately so you can build it once and use it for other GUIs Most if not all of your work can be done without test scripts because the tool itself can easily be made to conduct an automatic GUI survey collect test data and generate test cases You ll spend virtually none of your time playing with the tool or application under test Code intensive examples support all of the book s instruction which includes these key topics Building a C API text viewer Building a test monkey Developing an XML viewer using XPath and other XML related classes Building complex serializable classes for GUI test verification Automatically testing executable GUI applications and user defined GUI controls Testing managed NET and unmanaged GUI applications Automatically testing different GUI controls including Label TextBox Button CheckBox RadioButton Menu Verifying test results Effective GUI Test Automation is the perfect complement to Li and Wu s previous book Effective Software Test Automation Developing an Automated Software Testing Tool Together they provide programmers testers designers and managers with a complete and cohesive way to create a smoother swifter development process and as a result software that is as bug free as possible

**Advances in Computers** ,2014-08-27 Since its first

volume in 1960 *Advances in Computers* has presented detailed coverage of innovations in computer hardware software theory design and applications It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow As a result many articles have become standard references that continue to be of significant lasting value in this rapidly expanding field In depth surveys and tutorials on new computer technology Well known authors and researchers in the field Extensive bibliographies with most chapters Many of the volumes are devoted to single themes or subfields of computer science

#### **Formal Methods for Industrial Critical Systems** Anne

Remke, Bernhard Steffen, 2025-08-27 This book constitutes the proceedings of the 30th International Conference on Formal Methods for Industrial Critical Systems FMICS 2025 held in Aarhus Denmark during August 27 28 2025 The 13 full papers included in this book together with 2 invited papers were carefully reviewed and selected from 25 submissions The papers have been organized in the following topical sections verification automotive and railway cyber physical systems and embedded systems

#### *Advanced Automated Software Testing: Frameworks for Refined Practice* Alsmadi, Izzat, 2012-01-31

This book discusses the current state of test automation practices as it includes chapters related to software test automation and its validity and applicability in different domains Provided by publisher

#### Enterprise System Architectures Mark

Goodyear, 2017-12-14 Experts from Andersen Consulting show you how to combine computing communications and knowledge to deliver a uniquely new and entirely indispensable competitive advantage Lead Follow or get out of the way Your company's ability to sustain a competitive advantage is in jeopardy Your competitors can imitate and improve faster than ever You need to find ways to help your company discover and deliver an astounding solution control its costs and move on to the next astounding solution Web based computing is the vital technology enabler for today's most important business opportunities like E Commerce It is also the flexible foundation for future solutions However because of the complexities and difficulties it represents it can be a critical hurdle for IT shops and for an entire business Enterprise Systems Architecture Building Client Server and Web Based Systems is your guide through these complexities as you integrate your technology capabilities with your strategy people and processes to deliver astounding solutions It introduces you to basic principles and concepts provides an overview of state of the art in client server and Web based computing models and develops a solid business case for implementation Acquaints you with various technologies involved and describes a comprehensive network computing architecture Details crucial analysis design and implementation issues including design specifics for architectures applications and network rollout strategies and ongoing management of distributed operations Explores emerging technologies and their likely impact on the future of netcentric computing Here you'll find detailed information on the architectures and frameworks for network based computing strategies for designing and implementing solutions strategies and methods for security It also provides a full framework for testing applications and in depth dis

**Effective Software Testing** Elfriede Dustin, 2002 With the advent of agile methodologies testing is becoming the

responsibility of more and more team members In this new book noted testing expert Dustin imparts the best of her collected wisdom She presents 50 specific tips for a better testing program These 50 tips are divided into ten sections and presented so as to mirror the chronology of a software project     NetCentric and Client/Server Computing Anderson Consulting, Craig Mindrum, 1998-12-18 From Federal Express s package tracking Website to Amazon com netcentric computing has been evolving slowly but surely one solution at a time since the early 1990s Over the past year or so the trickle has grown into a torrent of netcentric innovations of wider and wider scope developed in companies around the globe Now a new enterprise computing paradigm has sprung into being Until now there has been no comprehensive netcentric model clearly defined netcentric system architecture or established set of guiding principles to help you gear up for this next stage in the evolution of enterprise computing written by the experts at Andersen Consulting Netcentric and Client Server Computing A Practical Guide offers you this and more Of course a book can never take the place of experts who wrote it but this revised updated and expanded edition of Andersen Consulting s noted guide is an important first step in acquiring the knowledge and skills you need to bring netcentric capabilities into your organization You ll learn from 13 acknowledged world experts what netcentric computing is how it works and how you can use it to provide your organization with an unstoppable competitive edge Based upon their experiences with mission critical netcentric implementations at 100 of the most successful business organizations on the planet these experts explain how netcentric computing can help you enable new business capabilities Using dozens of fascinating case examples they show you how to seamlessly integrate computing communications and knowledge resources in order to forge solid links among your company s employees units customers suppliers and partners regardless of time location device or content And they provide priceless advice and guidance on how to exploit the endless array of possibilities provided by netcentric computing to develop exciting new customer services identify new markets cut costs engineer internal processes for improved business performance and more Netcentric and Client Server Computing is divided into four self contained sections for ease of reference Section I introduces you to basic netcentric principles and concepts provides an overview of state of the art in netcentric computing models and develops a solid business case for netcentric computing Section II acquaints you with the various technologies involved and describes a comprehensive netcentric architecture Section III is devoted to crucial analysis design and implementation issues including design specifics for architectures applications and networks rollout strategies and ongoing management of distributed operations Section IV explores emerging technologies and their likely impact on the future of netcentric computing     Agile Development in the Real World Alan Cline, 2015-12-28 This book is a practical guide for new agile practitioners and contains everything a new project manager needs to know to get up to speed with agile practices quickly and sort out the hype and dogma of pseudo agile practices The author lays out the general guidelines for running an agile project with the assumption that the project team may be working in a traditional environment using the waterfall model or something similar Agile Development in the

Real World conveys valuable insights to multiple audiences For new to agile project managers this book provides a distinctive approach that Alan Cline has used with great success while showing the decision points and perspectives as the agile project moves forward from one step to the next This allows new agile project managers or agile coaches to choose between the benefits of agile and the benefits of other methods For the agile technical team member this book contains templates and sample project artifacts to assist in learning agile techniques and to be used as exemplars for the new practitioner s own project For the Project Management Office PMO the first three chapters focus on portfolio management They explain for the agilists benefit how projects are selected and approved and why projects have an inherent shelf life that results in hard deadlines that may seem arbitrary to traditional technical teams What You Will Learn How and why the evolution of project management from PM 1 prescriptive to PM 2 adaptive affects modern 21st century project management How sociology stakeholder management psychology team dynamics and anthropology organizational culture affect the way software is developed today and why it is far more effective A clear delineation of what must to be accomplished by all the roles PM BA APM Developer and Tester why those roles are needed and what they must do Step by step guide for a successful project based on studies and the author s own experiences Specific techniques for each role on the development team both in the pre iteration and iteration cycles of product development The appendices contain templates that the team could use or modify to tailor their own agile processes specific to the team project and organization

[InfoWorld](#) ,1993-09-06 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects

*Leveraging Applications of Formal Methods, Verification and Validation: Verification Principles* Tiziana Margaria,Bernhard Steffen,2020-10-28 The three volume set LNCS 12476 12478 constitutes the refereed proceedings of the 9th International Symposium on Leveraging Applications of Formal Methods ISoLA 2020 which was planned to take place during October 20 30 2020 on Rhodes Greece The event itself was postponed to 2021 due to the COVID 19 pandemic The papers presented were carefully reviewed and selected for inclusion in the proceedings Each volume focusses on an individual topic with topical section headings within the volume Part I Verification Principles Modularity and De Composition in Verification X by Construction Correctness meets Probability 30 Years of Statistical Model Checking Verification and Validation of Concurrent and Distributed Systems Part II Engineering Principles Automating Software Re Engineering Rigorous Engineering of Collective Adaptive Systems Part III Applications Reliable Smart Contracts State of the art Applications Challenges and Future Directions Automated Verification of Embedded Control Software Formal methods for DIStributed COmputing in future RAILway systems

**Maximizing ROI on Software Development** Vijay Sikka,2004-10-28 Maximizing ROI on Software Development explains how to execute best quality software development and testing while maximizing business value It discusses Applied ROI in the context of methodologies such as Agile and Extreme Programming and traditional methodologies including Six Sigma the Capability Maturity Model CMM Total Cost of Ownershi

*Automated Software Testing* Elfriede Dustin, Jeff Rashka, John Paul, 1999-06-28 With the urgent demand for rapid turnaround on new software releases without compromising quality the testing element of software development must keep pace requiring a major shift from slow labor intensive testing methods to a faster and more thorough automated testing approach *Automated Software Testing* is a comprehensive step by step guide to the most effective tools techniques and methods for automated testing Using numerous case studies of successful industry implementations this book presents everything you need to know to successfully incorporate automated testing into the development process In particular this book focuses on the Automated Test Life Cycle Methodology ATLM a structured process for designing and executing testing that parallels the Rapid Application Development methodology commonly used today *Automated Software Testing* is designed to lead you through each step of this structured program from the initial decision to implement automated software testing through test planning execution and reporting Included are test automation and test management guidance for Acquiring management support Test tool evaluation and selection The automated testing introduction process Test effort and test team sizing Test team composition recruiting and management Test planning and preparation Test procedure development guidelines Automation reuse analysis and reuse library Best practices for test automation **Lessons Learned in Software Testing** Cem Kaner, James Bach, Bret Pettichord, 2011-08-02 Softwaretests stellen eine kritische Phase in der Softwareentwicklung dar Jetzt zeigt sich ob das Programm die entsprechenden Anforderungen erf llt und sich auch keine Programmierungsfehler eingeschlichen haben Doch wie bei allen Phasen im Software Entwicklungsprozess gibt es auch hier eine Reihe m glicher Fallstricke die die Entdeckung von Programmfehlern vereiteln k nnen Deshalb brauchen Softwaretester ein Handbuch das alle Tipps Tricks und die h ufigsten Fehlerquellen genau auflistet und erl utert damit m gliche Testfehler von vornherein vermieden werden k nnen Ein solches Handbuch ersetzt gut und gerne jahr zehnt elange Erfahrung und erspart dem Tester frustrierende und langwierige Trial und Error Prozeduren Cem Kaner und James Bach sind zwei der international f hrenden Experten auf dem Gebiet des Software Testing Sie sch pfen hier aus ihrer insgesamt 30 j hrigen Erfahrung Die einzelnen Lektionen sind nach Themenbereichen gegliedert wie z B Testdesign Test Management Teststrategien und Fehleranalyse Jede Lektion enth lt eine Behauptung und eine Erkl rung sowie ein Beispiel des entsprechenden Testproblems *Lessons Learned in Software Testing* ist ein unverzichtbarer Begleiter f r jeden Software Tester Agile Testing Lisa Crispin, Janet Gregory, 2009 Testing is a key component of agile development The widespread adoption of agile methods has brought the need for effective testing into the limelight and agile projects have transformed the role of testers Much of a tester s function however remains largely misunderstood What is the true role of a tester Do agile teams actually need members with QA backgrounds What does it really mean to be an agile tester Two of the industry s most experienced agile testing practitioners and consultants Lisa Crispin and Janet Gregory have teamed up to bring you the definitive answers to these questions and many others In *Agile Testing* Crispin and Gregory define agile testing and illustrate

the tester's role with examples from real agile teams They teach you how to use the agile testing quadrants to identify what testing is needed who should do it and what tools might help The book chronicles an agile software development iteration from the viewpoint of a tester and explains the seven key success factors of agile testing Readers will come away from this book understanding How to get testers engaged in agile development Where testers and QA managers fit on an agile team What to look for when hiring an agile tester How to transition from a traditional cycle to agile development How to complete testing activities in short iterations How to use tests to successfully guide development How to overcome barriers to test automation This book is a must for agile testers agile teams their managers and their customers      **Computational**

**Science and Its Applications -- ICCSA 2013** Beniamino Murgante, Sanjay Misra, Maurizio Carlini, Carmelo Torre, Hong-Quang Nguyen, David Taniar, Bernady O. Apduhan, Osvaldo Gervasi, 2013-06-22 The five volume set LNCS 7971 7975 constitutes the refereed proceedings of the 13th International Conference on Computational Science and Its Applications ICCSA 2013 held in Ho Chi Minh City Vietnam in June 2013 Apart from the general track ICCSA 2013 also include 33 special sessions and workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality There are 46 papers from the general track and 202 in special sessions and workshops      Mobile Application Development, Usability, and Security

Mukherjea, Sougata, 2016-10-19 The development of mobile technology has experienced exponential growth in recent years Mobile devices are ubiquitous in modern society impacting both our personal and professional lives Mobile Application Development Usability and Security provides a thorough overview on the different facets of mobile technology management and its integration into modern society Highlighting issues related to analytics cloud computing and different types of application development this book is a pivotal reference source for professionals researchers upper level students and practitioners actively involved in the area of mobile computing      **Agile Testing** John Watkins, 2009-07-27 In an IT world in which there are differently sized projects with different applications differently skilled practitioners and on site off site and off shored development teams it is impossible for there to be a one size fits all agile development and testing approach This book provides practical guidance for professionals practitioners and researchers faced with creating and rolling out their own agile testing processes In addition to descriptions of the prominent agile methods the book provides twenty real world case studies of practitioners using agile methods and draws upon their experiences to propose your own agile method whether yours is a small medium large off site or even off shore project this book provides personalized guidance on the agile best practices from which to choose to create your own effective and efficient agile method      **Visual**

**Basic for Testers** Joe Sweeney, 2013-06-05 The goal of Visual Basic for Testers is to teach you how to use Visual Basic to increase your level of sophistication as a tester You ll learn how to use VB to write an automated testing project and what to look for in a well written VB program Author Mary Sweeney will help you gain the experience necessary both to use VB to



support an automated test project and to test a commercial application written in VB Since testers often want to move to development tracks Sweeney also presents information on programming and the issues involved in maintenance and debugging

**Testing iOS Apps with HadoopUnit** Scott Tilley, Krissada Dechokul, 2022-05-31 Smartphone users have come to expect high quality apps This has increased the importance of software testing in mobile software development Unfortunately testing apps particularly the GUI can be very time consuming Exercising every user interface element and verifying transitions between different views of the app under test quickly becomes problematic For example execution of iOS GUI test suites using Apple's UI Automation framework can take an hour or more if the app's interface is complicated The longer it takes to run a test the less frequently the test can be run which in turn reduces software quality This book describes how to accelerate the testing process for iOS apps using HadoopUnit a distributed test execution environment that leverages the parallelism inherent in the Hadoop platform HadoopUnit was previously used to run unit and system tests in the cloud It has been modified to perform GUI testing of iOS apps on a small scale cluster a modest computing infrastructure available to almost every developer Experimental results have shown that distributed test execution with HadoopUnit can significantly outperform the test execution on a single machine even if the size of the cluster used for the execution is as small as two nodes This means that the approach described in this book could be adopted without a huge investment in IT resources HadoopUnit is a cost effective solution for reducing lengthy test execution times of system level GUI testing of iOS apps

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