



Software Fault Injection

*Immunizing
Programs
Against Errors*

Jeffrey M. Voas
and David L. Wentzlich



Software Fault Injection Inoculating Programs Against Errors

Clifford Lane

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Software Fault Injection Jeffrey M. Voas,Gary McGraw,1998-02-11 This book is the first to describe the unique benefits and challenges associated with fault injection methods Using real world case studies and applications data the authors explain fault injection to the programmer and the developer CD ROM includes demo versions of fault injection tools and some basic algorithms for the reader to customize

Software Error Detection through Testing and Analysis J. C.

Huang,2009-08-06 An in depth review of key techniques in software error detection Software error detection is one of the most challenging problems in software engineering Now you can learn how to make the most of software testing by selecting test cases to maximize the probability of revealing latent errors Software Error Detection through Testing and Analysis begins with a thorough discussion of test case selection and a review of the concepts notations and principles used in the book Next it covers Code based test case selection methods Specification based test case selection methods Additional advanced topics in testing Analysis of symbolic trace Static analysis Program instrumentation Each chapter begins with a clear introduction and ends with exercises for readers to test their understanding of the material Plus appendices provide a logico mathematical background glossary and questions for self assessment Assuming a basic background in software quality assurance and an ability to write nontrivial programs the book is free of programming languages and paradigms used to construct the program under test Software Error Detection through Testing and Analysis is suitable as a professional reference for software testing specialists software engineers software developers and software programmers It is also appropriate as a textbook for software engineering software testing and software quality assurance courses at the advanced undergraduate and graduate levels

Computer Safety, Reliability, and Security Floor Koornneef,Meine van der

Meulen,2003-06-29 This book constitutes the refereed proceedings of the 19th International Conference on Computer Safety Reliability and Security SAFECOMP 2000 held in Rotterdam The Netherlands in October 2000 The 33 revised full papers presented together with three invited papers were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on verification and validation software process improvement formal methods safety guidelines standards and certification hardware aspects safety assessment design for safety and transport and infrastructure

Dependable Computing Carlos Alberto Maziero,2005-10-11 This book constitutes the refereed proceedings of the Second Latin American Symposium on Dependable Computing LADC 2005 held in Salvador Brazil in October 2005 The 16 revised full papers presented together with 3 invited talks and outlines of 2 workshops and 3 tutorials were carefully reviewed and selected from 39 submissions The papers are organized in topical sections on evaluation certification modelling embedded systems time and distributed systems algorithms

Software Testing , Encyclopedia of Software Engineering

Three-Volume Set (Print) Phillip A. Laplante,2010-11-22 Software engineering requires specialized knowledge of a broad spectrum of topics including the construction of software and the platforms applications and environments in which the

software operates as well as an understanding of the people who build and use the software Offering an authoritative perspective the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy to read entries that cover software requirements design construction testing maintenance configuration management quality control and software engineering management tools and methods Editor Phillip A Laplante uses the most universally recognized definition of the areas of relevance to software engineering the Software Engineering Body of Knowledge SWEBOK as a template for organizing the material Also available in an electronic format this encyclopedia supplies software engineering students IT professionals researchers managers and scholars with unrivaled coverage of the topics that encompass this ever changing field Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

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International Symposium on Software Reliability Engineering ,2001 The papers in this volume constitute the proceedings of the 12th International Symposium on Software Reliability Engineering ISSRE 2001

Fifth IEEE International

Symposium on Requirements Engineering ,2001 The proceedings from the August 2001 conference in Toronto feature the text of one keynote speech and the abstracts of three others 28 full papers abstracts for 14 state of the practice talks summaries of three panel sessions abstracts of four research tool demos and fourteen posters Major topics include representing and communicating requirements requirements for product lines organizational issues methods and processes scenarios and requirements negotiation formal methods and tools requirements and design and requirements for critical systems Author index only c Book News Inc

Sixth IEEE International Symposium on High Assurance Systems

Engineering ,2001 This volume contains the conference proceedings of the 2001 6th IEEE International Symposium on High Assurance Systems Engineering

Proceedings of the 28th Annual International Computer Software and Applications

Conference ,2004 COMPSAC 2004 explores a broad and diverse range of both topics from basic methodology and software process design to such practical concerns as liability risk and insurance issues Its second volume of Workshop papers cover software cybernetics quality assurance and testing of Web based applications and biological data management

How to

Break Software James A. Whittaker,2003 CD ROM contains Canned HEAT v 2 0 Holodeck Lite v 1 0

Application-specific Systems and Software Engineering & Technology IEEE Computer Society,1999 This text looks at the design and development of application specific software It covers topics such as networking engineering software and systems engineering security issues multimedia and information systems software reliability issues and tools for software and systems

Proceedings IEEE Computer Society. Fault-Tolerant Computing Technical Committee,2000 Proceedings of the

June 2000 conference that addressed society s unprecedented reliance on the dependability integrity security and availability of a global network of computing systems The 66 contributions cover embedded systems measurement and assessment

mobile agents analysis and evaluation

The Software Encyclopedia ,1986

Software Test Automation Mark Fewster,Dorothy Graham,1999 Describes how to structure and build an automated testing regime that will give lasting benefits in the use of test execution tools to automate testing on a medium to large scale Offers practical advice for selecting the right tool and for implementing automated testing practices within an organization and presents an extensive collection of case studies and guest chapters reflecting both good and bad experiences in test automation Useful for recent purchasers of test automation tools technical managers vendors and consultants The authors are consultant partners in a company that provides consultancy and training in software testing and test automation Annotation copyrighted by Book News Inc Portland OR

Aspects of Safety Management Felix Redmill,2001-02-14 Aspects of Safety Management contains the invited papers presented at the ninth annual Safety critical Systems Symposium held in Bristol February 2001 For some time it has been recognised that technical issues are only one side of the safety coin The other often dominant feature is active informed and committed management An understanding of risk emphasis on education and the use of language attention to learning lessons from both research and other industry sectors and the development of the appropriate staff competences are all aspects of safety management The papers contained within this volume cover a broad range of subjects but all have the common link of safety management They present a great deal of industrial experience as well as some recent academic research

COMPSAC 2001 ,2001 Papers from an October 2001 address such themes as requirements engineering component based development protocols and harmonization quality management software architecture workflow systems and software testing distributed systems UML commercial off the shelf components e learning applicat

Information Assurance for the Enterprise: A Roadmap to Information Security Corey Schou,Daniel Shoemaker,2006-09-13 Going beyond the technical coverage of computer and systems security measures Information Assurance for the Enterprise provides readers an overarching model for information assurance for businesses government agencies and other enterprises needing to establish a comprehensive plan All the components of security and how they relate are featured and readers will also be shown how an effective security policy can be developed Topics like asset identification human factors compliance with regulations personnel security risk assessment and ethical considerations are covered as well as computer and network security tools and methods This is one of the only texts on the market that provides an up to date look at the whole range of security and IA topics In post 9 11 times managers and IT professionals need to address a wide range of security related issues and develop security systems that take all these diverse factors into account As someone who has worked extensively with the U S State Department and other governmental agencies Corey Schou is uniquely positioned to write the definitive book on the subject and Daniel Shoemaker is a professor and consultant to the Department of Homeland Security in matters of Information Assurance policy

KDD ... ,2003

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