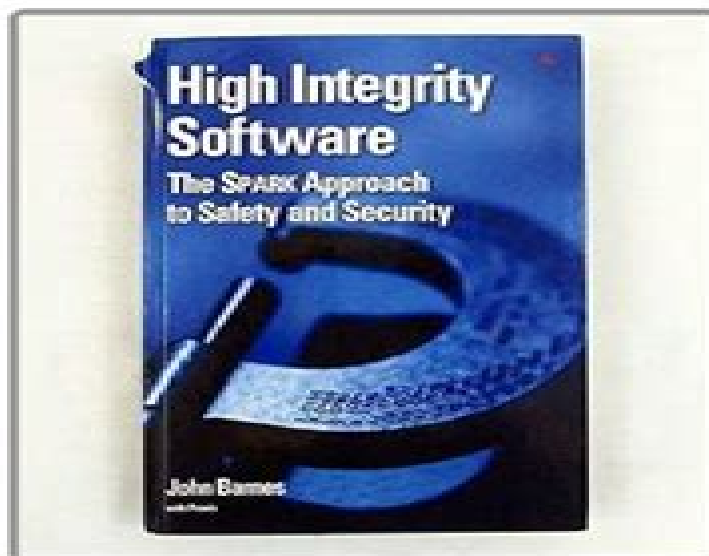


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High Integrity Software The Spark Approach To Safety And Security

Giuseppe Castagna



High Integrity Software The Spark Approach To Safety And Security:

High Integrity Software John Gilbert Presslie Barnes,2006 **High Integrity Software** John Gilbert Presslie Barnes,2003 **Software Safety and Security** NATO Emerging Security Challenges Division,2012 Recent decades have seen major advances in methods and tools for checking the safety and security of software systems Automatic tools can now detect security flaws not only in programs of the order of a million lines of code but also in high level protocol descriptions There has also been something of a breakthrough in the area of operating system verification This book presents the lectures from the NATO Advanced Study Institute on Tools for Analysis and Verification of Software Safety and Security a summer school held at Bayrischzell Germany in 2011 This Advanced Study Institute was divided into three integrated modules Foundations of Safety and Security Applications of Safety Analysis and Security Analysis Subjects covered include mechanized game based proofs of security protocols formal security proofs model checking using and building an automatic program verifier and a hands on introduction to interactive proofs Bringing together many leading international experts in the field this NATO Advanced Study Institute once more proved invaluable in facilitating the connections which will influence the quality of future research and the potential to transfer research into practice This book will be of interest to all those whose work depends on the safety and security of software systems **Static Analysis of Software** Jean-Louis Boulanger,2013-02-07 The existing literature currently available to students and researchers is very general covering only the formal techniques of static analysis This book presents real examples of the formal techniques called abstract interpretation currently being used in various industrial fields railway aeronautics space automotive etc The purpose of this book is to present students and researchers in a single book with the wealth of experience of people who are intrinsically involved in the realization and evaluation of software based safety critical systems As the authors are people currently working within the industry the usual problems of confidentiality which can occur with other books is not an issue and so makes it possible to supply new useful information photos architectural plans real examples **Reliable Software Technology - Ada-Europe 2005** Tullio Vardanega,Andrew J. Wellings,2005-06-08 This book constitutes the refereed proceedings of the 10th International Conference on Reliable Software Technologies Ada Europe 2005 held in York UK in June 2005 The 21 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on applications design and scheduling formal methods Ada and education certification and verification distributed systems language aspects and Ravenscar technology **Formal Methods Applied to Complex Systems** Jean-Louis Boulanger,2014-07-22 This book presents real world examples of formal techniques in an industrial context It covers formal methods such as SCADE and or the B Method in various fields such as railways aeronautics and the automotive industry The purpose of this book is to present a summary of experience on the use of formal methods based on formal techniques such as proof abstract interpretation and model checking in industrial examples of complex systems based

on the experience of people currently involved in the creation and assessment of safety critical system software The involvement of people from within the industry allows the authors to avoid the usual confidentiality problems which can arise and thus enables them to supply new useful information photos architecture plans real examples etc *Reliable Software Technologies - Ada-Europe 2010* Jorge Real,Tullio Vardanega,2010-06-01 This book constitutes the proceedings of the 15th Ada Europe International Conference on Reliable Software Technologies Ada Europe 2010 held in Valencia Spain on June 14 18 2010 The 17 papers presented were carefully reviewed and selected from 40 submissions Topics of interest to the conference are software dependability critical real time and distributed systems and language technology all under the more general heading of Reliable Software Technologies *FM 2015: Formal Methods* Nikolaj Bjørner, Frank de Boer, 2015-05-23 This book constitutes the refereed proceedings of the 20th International Symposium on Formal Methods FM 2015 held in Oslo Norway in June 2015 The 30 full papers and 2 short papers presented were carefully reviewed and selected from 124 submissions The papers cover a wide spectrum of all the different aspects of the use of and the research on formal methods for software development *Verified Software: Theories, Tools, Experiments* Bertrand Meyer, James Woodcock, 2008-07-07 A Step Towards Verified Software Worries about the reliability of software are as old as software itself techniques for allaying these worries predate even James King s 1969 thesis on A program verifier What gives the whole topic a new urgency is the conjunction of three phenomena the blitz like spread of software rich systems to control ever more facets of our world and our lives our growing impatience with deficiencies and the development proceeding more slowly alas than the other two trends of techniques to ensure and verify software quality In 2002 Tony Hoare one of the most distinguished contributors to these advances over the past four decades came to the conclusion that piecemeal efforts are no longer sufficient and proposed a Grand Challenge intended to achieve over 15 years the production of a verifying compiler a tool that while processing programs would also guarantee their adherence to specified properties of correctness robustness safety security and other desirable properties As Hoare sees it this endeavor is not a mere research project as might normally be carried out by one team or a small consortium of teams but a momentous endeavor comparable in its scope to the successful mission to send a man to the moon or to the sequencing of the human genome **Interactive Theorem Proving** Marko Van Eekelen, Herman Geuvers, Julien Schmaltz, Freek Wiedijk, 2011-08-02 This book constitutes the refereed proceedings of the Second International Conference on Interactive Theorem proving ITP 2011 held in Berg en Dal The Netherlands in August 2011 The 25 revised full papers presented were carefully reviewed and selected from 50 submissions Among the topics covered are counterexample generation verification validation term rewriting theorem proving computability theory translations from one formalism to another and cooperation between tools Several verification case studies were presented with applications to computational geometry unification real analysis etc **Programming Languages and Systems** Giuseppe Castagna, 2009-03-09 ETAPS 2009 was the 12th instance of the European Joint

Conferences on Theory and Practice of Software ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences. This year it comprised the following conferences: CC ESOP FASE FOSSACS TACAS 22 satellite workshops ACCAT ARSPA WITS Bytecode COCV COMPASS FESCA FInCo FORMED GaLoP GT VMT HFL LDTA MBT MLQA OpenCert PLACES QAPL RC SafeCert TAASN TERMGRAPH and WING, four tutorials and seven invited lectures, excluding those that were specific to the satellite events. The five main conferences received 532 submissions, including 30 tool demonstration papers, 141 of which were accepted, 10 tool demos, giving an overall acceptance rate of about 26%, with most of the conferences at around 25%. Congratulations therefore to all the authors who made it to the final programme. I hope that most of the other authors will still have found a way of participating in this exciting event and that you will all continue submitting to ETAPS and contributing towards making it the best conference on software science and engineering. The events that comprise ETAPS address various aspects of the system development process, including specification, design, implementation, analysis, and improvement. The languages, methodologies, and tools which support these activities are all well within its scope. Different blends of theory and practice are represented, with an inclination towards theory, with a practical motivation on the one hand, and soundly based practice on the other.

Certifiable Software Applications 3 Jean-Louis Boulanger, 2018-09-03
 Downward Cycle describes the descending phase of the creation of a software application, detailing specification, phases, architecture, design, and coding, and important concepts on modeling and implementation. For coding, code generation, and/or manual code production strategies are explored. As applications are coded, a presentation of programming languages and their impact on certifiability is included. Describes the descending phase of the creation of a software application, detailing specification, phases, architecture, design, and coding. Presents valuable programming examples. Includes a presentation of programming languages and their impact on certifiability.

Integrated Formal Methods Brijesh Dongol, Elena Troubitsyna, 2020-11-13
 This book constitutes the refereed proceedings of the 16th International Conference on Integrated Formal Methods IFM 2019 held in Lugano, Switzerland, in November 2020. The 24 full papers and 2 short papers were carefully reviewed and selected from 63 submissions. The papers cover a broad spectrum of topics: Integrating Machine Learning and Formal Modelling; Modelling and Verification in B and Event B; Program Analysis and Testing; Verification of Interactive Behaviour; Formal Verification; Static Analysis; Domain Specific Approaches; and Algebraic Techniques.

Software Engineering and Formal Methods Rocco De Nicola, Eva Kühn, 2016-06-22
 This book constitutes the proceedings of the 14th International Conference on Software Engineering and Formal Methods SEFM 2016 held as part of STAF 2016 in Vienna, Austria, in July 2016. The 20 full and 5 short papers presented in this volume were carefully reviewed and selected from 88 submissions. They were organized in topical sections named: concurrency and non-interference; program analysis; model checking; verification; interaction and adaptation; and development methods.

Verified Software: Theories, Tools, Experiments Natarajan Shankar, Jim Woodcock, 2008-09-26
 This volume contains the proceedings of the second working

conference on Verified Software Theories Tools and Experiments VSTTE 2008 held in Toronto Canada in October 2008 The 16 papers presented together with 4 invited talks were carefully revised and selected for inclusion in the book This second conference formally inaugurates the Verified Software Initiative VSI a fifteen year co operative international project directed at the scientific challenges of large scale software verification The scope of the cooperative effort includes the sharing and interoperability of tools the alignment of theory and practice the identification of challenge problems the construction of benchmark suites and the execution of large scale experiments Industrial Use of Formal Methods Jean-Louis Boulanger,2013-05-10 At present the literature gives students and researchers of the very general books on the formal technics The purpose of this book is to present in a single book a return of experience on the used of the formal technics such proof and model checking on industrial examples for the transportation domain This book is based on the experience of people which are completely involved in the realization and the evaluation of safety critical system software based The implication of the industrialists allows to raise the problems of confidentiality which could appear and so allow to supply new useful information photos plan of architecture real example Construction and Analysis of Safe, Secure, and Interoperable Smart Devices Gilles Barthe,2005-01-21 This book constitutes the thoroughly refereed post proceedings of the International Workshop on Construction and Analysis of Safe Secure and Interoperable Smart Devices CASSIS 2004 held in Marseille France in March 2004 The 13 revised full papers presented were carefully selected during two rounds of reviewing and improvement The papers are devoted to trends in smart card research operating systems and virtual machine technologies secure platforms security application validation verification and formal modeling and formal methods Deductive Verification of Object-oriented Software Benjamin Weiß,2014-08-18 Software systems play a central role in modern society and their correctness is often crucially important Formal specification and verification are promising approaches for ensuring correctness more rigorously than just by testing This work presents an approach for deductively verifying design by contract specifications of object oriented programs The approach is based on dynamic logic and addresses the challenges of modularity and automation using dynamic frames and predicate abstraction **Software for Dependable Systems** National Research Council,Division on Engineering and Physical Sciences,Computer Science and Telecommunications Board,Committee on Certifiably Dependable Software Systems,2007-09-14 The focus of Software for Dependable Systems is a set of fundamental principles that underlie software system dependability and that suggest a different approach to the development and assessment of dependable software Unfortunately it is difficult to assess the dependability of software The field of software engineering suffers from a pervasive lack of evidence about the incidence and severity of software failures about the dependability of existing software systems about the efficacy of existing and proposed development methods about the benefits of certification schemes and so on There are many anecdotal reports which although often useful for indicating areas of concern or highlighting promising avenues of research do little to establish a sound and complete basis for making

policy decisions regarding dependability The committee regards claims of extraordinary dependability that are sometimes made on this basis for the most critical of systems as unsubstantiated and perhaps irresponsible This difficulty regarding the lack of evidence for system dependability leads to two conclusions 1 that better evidence is needed so that approaches aimed at improving the dependability of software can be objectively assessed and 2 that for now the pursuit of dependability in software systems should focus on the construction and evaluation of evidence The committee also recognized the importance of adopting the practices that are already known and used by the best developers this report gives a sample of such practices Some of these such as systematic configuration management and automated regression testing are relatively easy to adopt others such as constructing hazard analyses and threat models exploiting formal notations when appropriate and applying static analysis to code will require new training for many developers However valuable though these practices are in themselves no silver bullet and new techniques and methods will be required in order to build future software systems to the level of dependability that will be required

Engineering Trustworthy Software Systems Jonathan P. Bowen, Zhiming Liu, Zili Zhang, 2017-04-18 This volume contains a record of some of the lectures and seminars delivered at the Second International School on Engineering Trustworthy Software Systems SETSS 2016 held in March April 2016 at Southwest University in Chongqing China The six contributions included in this volume provide an overview of leading edge research in methods and tools for use in computer system engineering They have been distilled from six courses and two seminars on topics such as modelling and verification in event B parallel programming today runtime verification Java in the safety critical domain semantics of reactive systems parameterized unit testing formal reasoning about infinite data values and Alan Turing and his remarkable achievements The material is useful for postgraduate students researchers academics and industrial engineers who are interested in the theory and practice of methods and tools for the design and programming of trustworthy software systems

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