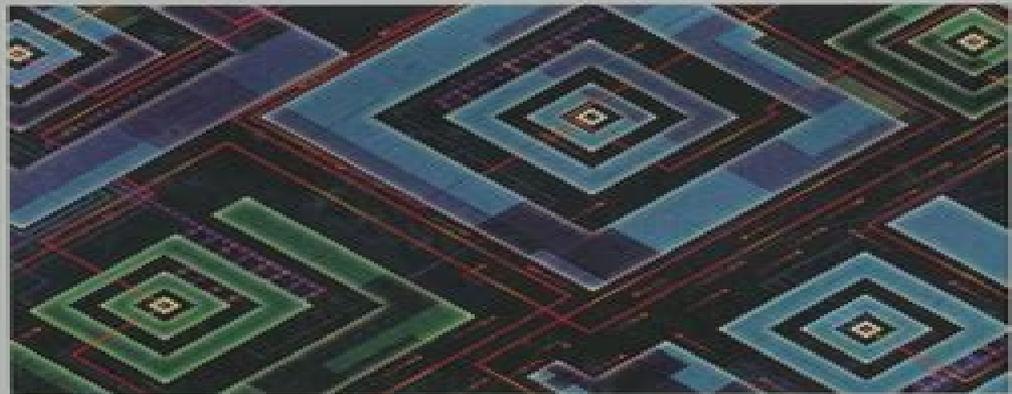


Verification of Sequential and Concurrent Programs



Krzysztof R. Apt
Ernst-Rüdiger Olderog

SECOND EDITION



Springer

Verification Of Sequential And Concurrent Programs

M Carnoy



Verification Of Sequential And Concurrent Programs:

Verification of Sequential and Concurrent Programs Krzysztof Apt, Frank S. de Boer, Ernst-Rüdiger Olderog, 2010-10-14
THIS BOOK CONTAINS a most comprehensive text that presents syntax directed and compositional methods for the formal verification of programs The approach is not language bounded in the sense that it covers a large variety of programming models and features that appear in most modern programming languages It covers the classes of sequential and parallel deterministic and non deterministic distributed and object oriented programs For each of the classes it presents the various criteria of correctness that are relevant for these classes such as interference freedom deadlock freedom and appropriate notions of liveness for parallel programs Also special proof rules appropriate for each class of programs are presented In spite of this diversity due to the rich program classes considered there exist a uniform underlying theory of verification which is synt oriented and promotes compositional approaches to verification leading to scalability of the methods The text strikes the proper balance between mathematical rigor and dactylic introduction of increasingly complex rules in an incremental manner adequately supported by state of the art examples As a result it can serve as a textbook for a variety of courses on different levels and varying durations It can also serve as a reference book for researchers in the theory of verification in particular since it contains much material that never before appeared in book form This is specially true for the treatment of object oriented programs which is entirely novel and is strikingly elegant

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cornucopia of programming constructs from which an appropriate selection has to be made Having studied some of these constructs separately does not yet imply that we understand their combined effect Concurrent Verification for Sequential Programs John Peter Wickerson,2013 *Formal Testing of Concurrent Programs* Raghvendra Savor,1987 *Tools and Algorithms for the Construction and Analysis of Systems* Axel Legay,Tiziana Margaria,2017-03-30 The two book set LNCS 10205 10206 constitutes the proceedings of the 23rd International Conference on Tools and Algorithms for the Construction and Analysis of Systems TACAS 2017 which took place in Uppsala Sweden in April 2017 held as Part of the European Joint Conferences on Theory and Practice of Software ETAPS 2017 The 48 full papers 4 tool demonstration papers and 12 software competition papers presented in these volumes were carefully reviewed and selected from 181 submissions to TACAS and 32 submissions to the software competition They were organized in topical sections named verification techniques learning synthesis automata concurrency and bisimulation hybrid systems security run time verification and logic quantitative systems SAT and SMT and SV COMP Distributed Concurrent Programs as Strategies in Games Anil Nerode,Alexander Yakhnis,Vladimir Yakhnis,1993 **Models, Algebras and Logic of Engineering Software** Manfred Broy,Markus Pizka,2003 This volume focuses on the education of researchers teachers students and practitioners As usual in engineering a study and application of the relevant branches of mathematics is crucial both in education and practice **Concurrent Programming in Java** Douglas Lea,1997 This book provides you with detailed information and expert techniques that will enable you to exploit the many advantages of concurrent programming and create multi threaded Java applications that are more responsive to user demands faster and more easily controlled Taking a design pattern approach the book offers numerous standard design techniques for creating and implementing Java structures that solve common concurrent programming challenges Doug Lea is Professor of computer Science at SUNY Oswego Co director of the Software Engineering Lab at the New York Center for Advanced Technology in Computer Applications and Adjunct Professor of Electrical and Computer Engineering at Syracuse University **Verification of Recursive Programs** Simon M. Kaplan,1985 *Programming Languages and Systems* Andrew Gordon,2010-03-10 Annotation This book constitutes the refereed proceedings of the 19th European Symposium on Programming ESOP 2010 held in Paphos Cyprus in March 2010 as part of ETAPS 2010 the European Joint Conferences on Theory and Practice of Software The 30 revised full papers presented together with two invited talks one abstract and one full were carefully reviewed and selected from 121 full paper submissions The topics addressed include programming paradigms and styles methods and tools to write and specify programs and languages methods and tools for reasoning about programs methods and tools for implementation and concurrency and distribution *Computer-aided Verification* ,2004 The Origin of Concurrent Programming Per Brinch Hansen,2013-06-29 One cannot build or understand a modern operating system unless one knows the principles of concurrent programming This volume is a collection of 19 original papers on the invention and origins of concurrent

programming illustrating the major breakthroughs in the field from the mid 1960s to the late 1970s All of them are written by the pioneers in concurrent programming including Brinch Hansen himself and have introductions added that summarize the papers and put them in perspective This anthology is an essential reference for professional programmers researchers and students of electrical engineering and computer science A familiarity with operating system principles is assumed

Proceedings of the Eighth Symposium on Operating Systems Principles, 14-16 December 1981, Asilomar Conference Grounds, Pacific Grove, California ,1981 **Asia-Pacific Software Engineering Conference, 1996 ,1996**

The three keynote addresses cover the new for new software technology principles of software evolution and auditing informal software testing and analysis processes Others of the 41 papers consider a design metric for module coupling a class testing technique based on data binding safety analysis using colored Petri nets a dynamic extension for specifying distributed systems designing and implementing dynamically reconstructing system software a dialog oriented user interface generation mechanism real time system design tools based on a real time object model and other topics No subject index Annotation copyrighted by Book News Inc Portland OR Concurrent Programs are Easier to Verify Than Sequential Programs E. Clarke,1978 Dependable Software Systems Engineering J. Esparza,O. Grumberg,S. Sickert,2016-04-19 In the last few years we have all become daily users of Internet banking social networks and cloud services Preventing malfunctions in these services and protecting the integrity of private data from cyber attack are both current preoccupations of society at large While modern technologies have dramatically improved the quality of software the computer science community continues to address the problems of security by developing a theory of formal verification a body of methodologies algorithms and software tools for finding and eliminating bugs and security hazards This book presents lectures delivered at the NATO Advanced Study Institute ASI School Marktoberdorf 2015 Verification and Synthesis of Correct and Secure Systems During this two week summer school held in Marktoberdorf Germany in August 2015 the lecturers provided a comprehensive view of the current state of the art in a large variety of subjects including models and techniques for analyzing security protocols parameterized verification synthesis of reactive systems software model checking composition checking programming by examples verification of current software two player zero sum games played on graphs software security by information flow equivalents combinatorics and analysis of synthesis with Big Code The Marktoberdorf ASIs have become a high level scientific nucleus of the international scientific network on formal methods and one of the major international computer science summer schools This book will be of interest to all those seeking an overview of current theories and applications in formal verification and security *18th Annual Symposium on Foundations of Computer Science, Oct. 31-Nov. 2, 1977, Providence, Rhode Island ,1977* *Proceedings of the Seventh Israeli Conference on Computer Systems and Software Engineering, June 12-13, 1996, Herzliya, Israel ,1996* Contains papers from the June 1996 conference concentrating on advanced methods and research on all aspects of analysis design development and

implementation of computer based systems and their software Offers material in areas such as the software process architecture and parallelism program **Encyclopedia of Computer Science and Technology** Allen Kent,James G. Williams,1992-03-20 This comprehensive reference work provides immediate fingertip access to state of the art technology in nearly 700 self contained articles written by over 900 international authorities Each article in the Encyclopedia features current developments and trends in computers software vendors and applications extensive bibliographies of leading figures in the field such as Samuel Alexander John von Neumann and Norbert Wiener and in depth analysis of future directions

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