



PROVING PROGRAMS CORRECT



ROBERT B. ANDERSON

Proving Programmes Correct

Gert Smolka



Proving Programmes Correct:

Interactive Theorem Proving and Program Development Yves Bertot, Pierre Castéran, 2013-03-14 Coq is an interactive proof assistant for the development of mathematical theories and formally certified software It is based on a theory called the calculus of inductive constructions a variant of type theory This book provides a pragmatic introduction to the development of proofs and certified programs using Coq With its large collection of examples and exercises it is an invaluable tool for researchers students and engineers interested in formal methods and the development of zero fault software

The Design of Well-Structured and Correct Programs Suad Alagic, Michael A. Arbib, 2013-11-11 The major goal of this book is to present the techniques of top down program design and verification of program correctness hand in hand It thus aims to give readers a new way of looking at algorithms and their design synthesizing ten years of research in the process It provides many examples of program and proof development with the aid of a formal and informal treatment of Hoare's method of invariants Modern widely accepted control structures and data structures are explained in detail together with their formal definitions as a basis for their use in the design of correct algorithms We provide and apply proof rules for a wide range of program structures including conditionals loops procedures and recursion We analyze situations in which the restricted use of gotos can be justified providing a new approach to proof rules for such situations We study several important techniques of data structuring including arrays files records and linked structures The secondary goal of this book is to teach the reader how to use the programming language Pascal This is the first text to teach Pascal programming in a fashion which not only includes advanced algorithms which operate on advanced data structures but also provides the full axiomatic definition of Pascal due to Wirth and Hoare Our approach to the language is very different from that of a conventional programming text

Logic Programming Philippe Codognet, 2003-06-30 This book constitutes the refereed proceedings of the 17th International Conference on Logic Programming ICLP 2001 held in Paphos Cyprus in November December 2001 The 23 revised full papers presented were carefully reviewed and selected from 64 submissions All current aspects of logic programming and computational logics are addressed

Principles and Practice of Constraint Programming - CP97 Gert Smolka, 1997-10-15 This book constitutes the refereed proceedings of the Third International Conference on Principles and Practice of Constraint Programming CP 97 held in Linz Austria in October November 1997 The volume presents 37 revised full papers carefully selected from a total of 132 submissions also included are the abstracts of two invited talks and three tutorials The papers address all current aspects of constraint programming Among the topics covered are constraint matching constraint languages set constraints constraint search constraint satisfaction problems scheduling constraint routing temporal constraints constraint graphs local search object oriented constraint programming etc

Logic Programming and Automated Reasoning Andrei Voronkov, 1992-07 This volume contains the proceedings of LPAR 92 the international conference on logic programming and automated reasoning held in St Petersburg in July 1992

The aim of the conference was to bring together researchers from the Russian and the international logic programming and theorem proving communities. The topics of interest covered by papers in the volume include automated theorem proving, non-monotonic reasoning, applications of mathematical logic to computer science, deductive databases, implementation of declarative concepts and programming in non-classical logics. LPAR 92 is the successor of the First and Second Russian Conferences on Logic Programming held in 1990 and 1991 respectively, the proceedings of which were published in LNAI Vol 592.

Proof Reconstruction in Classical and Non-Classical Logics Stephanie Schmitt, 2000

The Programming and Proof System ATES Armand Puccetti, 2013-11-11

Today people use a large number of systems ranging in complexity from washing machines to international airline reservation systems. Computers are used in nearly all such systems; accuracy and security are becoming increasingly essential. The design of such computer systems should make use of development methods as systematic as those used in other engineering disciplines. A systematic development method must provide a way of writing specifications which are both precise and concise; it must also supply a way of relating design to specification. A concise specification can be achieved by restricting attention to what a system has to do; all considerations of implementation details are postponed. With computer systems this is done by

- 1 building an abstract model of the system operations being specified by pre and post conditions
- 2 defining languages by mapping program texts onto some collection of objects modeling the concepts of the system to be dealt with whose meaning is understood
- 3 defining complex data objects in terms of abstractions known from mathematics.

This last topic, the use of abstract data types, pervades all work on specifications and is necessary in order to apply ideas to systems of significant complexity. The use of mathematics-based notations is the best way to achieve precision.

1 ABSTRACT DATA TYPES PROOF TECHNIQUES

From a practical point of view, a solution to these three problems consists in introducing abstract data types in the programming languages and in considering formal proof methods.

Annual Review in Automatic Programming Mark I. Halpern, William C. McGee, Louis Bolliet, 2014-05-17

Computer Science and Technology and their Application is an eight chapter book that first presents a tutorial on database organization. Subsequent chapters describe the general concepts of Simula 67 programming language, incremental compilation and conversational interpretation, dynamic syntax, the ALGOL 68. Other chapters discuss the general purpose conversational system for graphical programming and automatic theorem proving based on resolution. A survey of extensible programming language is also shown.

On Concurrent Programming Fred B. Schneider, 2012-12-06

Concurrent computing is gaining ground in interest as it becomes increasingly feasible to implement distributed computing across networks of workstations. This book by one of the subject's leading figures provides a comprehensive survey of the subject, beginning with propositional logic and concluding with concurrent programming. It is based on graduate courses taught at Cornell University and is designed to be used as a graduate text. There are exercises at the end of each chapter to extend and illustrate the main themes covered. Professor Schneider emphasizes the use of formal methods and assertional reasoning using

notation and paradigms drawn from programming to drive the exposition As a result all those interested in studying concurrent computing will find this to be an invaluable approach to the subject

The Application of Theorem Proving to Question-answering Systems Claude Cordell Green,1970 The paper shows how a question answering system can use first order logic as its language and an automatic theorem prover based upon the resolution inference principle as its deductive mechanism The resolution proof procedure is extended to a constructive proof procedure An answer construction algorithm is given whereby the system is able not only to produce yes or no answers but also to find or construct an object satisfying a specified condition A working computer program QA3 based on these ideas is described Methods are presented for solving state transformation problems In addition to question answering the program can do automatic programming control and problem solving for a simple robot pattern recognition and puzzles Author

The History of Information Security

Karl Maria Michael de Leeuw,Jan Bergstra,2007-08-28 Information Security is usually achieved through a mix of technical organizational and legal measures These may include the application of cryptography the hierarchical modeling of organizations in order to assure confidentiality or the distribution of accountability and responsibility by law among interested parties The history of Information Security reaches back to ancient times and starts with the emergence of bureaucracy in administration and warfare Some aspects such as the interception of encrypted messages during World War II have attracted huge attention whereas other aspects have remained largely uncovered There has never been any effort to write a comprehensive history This is most unfortunate because Information Security should be perceived as a set of communicating vessels where technical innovations can make existing legal or organisational frame works obsolete and a breakdown of political authority may cause an exclusive reliance on technical means This book is intended as a first field survey It consists of twenty eight contributions written by experts in such diverse fields as computer science law or history and political science dealing with episodes organisations and technical developments that may considered to be exemplary or have played a key role in the development of this field These include the emergence of cryptology as a discipline during the Renaissance the Black Chambers in 18th century Europe the breaking of German military codes during World War II the histories of the NSA and its Soviet counterparts and contemporary cryptology Other subjects are computer security standards viruses and worms on the Internet computer transparency and free software computer crime export regulations for encryption software and the privacy debate Interdisciplinary coverage of the history Information Security Written by top experts in law history computer and information science First comprehensive work in Information Security

Programming Languages and Systems Sukyoung Ryu,2018-11-22 This book constitutes the proceedings of the 16th Asian Symposium on Programming Languages and Systems APLAS 2018 held in Wellington New Zealand in December 2018 The 22 papers presented in this volume were carefully reviewed and selected from 51 submissions They are organized in topical sections named types program analysis tools functional programs and probabilistic programs verification logic and

continuation and model checking A Practical Handbook for Software Development N. D. Birrell, Martyn A. Ould, M. A. Ould, 1988-02-11 The designer of a software system like the architect of a building needs to be aware of the construction techniques available and to choose the ones that are the most appropriate This book provides the implementer of software systems with a guide to 25 different techniques for the complete development processes from system definition through design and into production The techniques are described against a common background of the traditional development path its activities and deliverable items In addition the concepts of metrics and indicators are introduced as tools for both technical and managerial monitoring and control of progress and quality The book is intended to widen the mental toolkit of system developers and their managers and will also introduce students of computer science to the practical side of software development With its wide ranging treatment of the techniques available and the practical guidance it offers it will prove an important and valuable work

Logic Programming John Lloyd, 1995 The International Logic Programming Symposium is one of two major international conferences sponsored by the Association of Logic Programming Both conferences are held annually The theme for the 1995 conference was Declarative Systems particularly the integration of the logic programming functional programming and object oriented programming paradigms

Advances in Systems Safety Chris Dale, Tom Anderson, 2010-11-29 Advances in Systems Safety contains the papers presented at the nineteenth annual Safety Critical Systems Symposium held at Southampton UK in February 2011 The Symposium is for engineers managers and academics in the field of system safety across all industry sectors so the papers making up this volume offer a wide ranging coverage of current safety topics and a blend of academic research and industrial experience They include both recent developments in the field and discussion of open issues that will shape future progress The 17 papers in this volume are presented under the headings of the Symposium s sessions Safety Cases Projects Services and Systems of Systems Systems Safety in Healthcare Testing Safety Critical Systems Technological Matters and Safety Standards The book will be of interest to both academics and practitioners working in the safety critical systems arena

Edsger Wybe Dijkstra Krzysztof R. Apt, Tony Hoare, 2022-07-14 Edsger Wybe Dijkstra 1930 2002 was one of the most influential researchers in the history of computer science making fundamental contributions to both the theory and practice of computing Early in his career he proposed the single source shortest path algorithm now commonly referred to as Dijkstra s algorithm He wrote with Jaap Zonneveld the first ALGOL 60 compiler and designed and implemented with his colleagues the influential THE operating system Dijkstra invented the field of concurrent algorithms with concepts such as mutual exclusion deadlock detection and synchronization A prolific writer and forceful proponent of the concept of structured programming he convincingly argued against the use of the Go To statement In 1972 he was awarded the ACM Turing Award for fundamental contributions to programming as a high intellectual challenge for eloquent insistence and practical demonstration that programs should be composed correctly not just debugged into correctness for illuminating perception of problems at the foundations of program design

Subsequently he invented the concept of self stabilization relevant to fault tolerant computing He also devised an elegant language for nondeterministic programming and its weakest precondition semantics featured in his influential 1976 book *A Discipline of Programming* in which he advocated the development of programs in concert with their correctness proofs In the later stages of his life he devoted much attention to the development and presentation of mathematical proofs providing further support to his long held view that the programming process should be viewed as a mathematical activity In this unique new book 31 computer scientists including five recipients of the Turing Award present and discuss Dijkstra's numerous contributions to computing science and assess their impact Several authors knew Dijkstra as a friend teacher lecturer or colleague Their biographical essays and tributes provide a fascinating multi author picture of Dijkstra from the early days of his career up to the end of his life

Logic Programming Maurizio Gabbrielli, Gopal Gupta, 2005-10-10 This book constitutes the refereed proceedings of the 21st International Conference on Logic and Programming ICLP 2005 held in Barcelona Spain in October 2005 The 25 revised full papers and 15 revised poster papers presented together with 4 invited papers and 7 abstracts of a poster session of a doctoral consortium were carefully reviewed and selected from 104 submissions The papers cover all issues of current research in logic programming Extra attention is given to novel applications of logic programming and work providing novel integrations of different areas

Proceedings of the 1992 ACM Conference on LISP and Functional Programming Association for Computing Machinery, 1992

Advances in Computers, 1985-06-17 *Advances in Computers*

Handbook of Logic in Artificial Intelligence and Logic Programming: Volume 5: Logic Programming Dov M. Gabbay, C. J. Hogger, J. A. Robinson, 1998-01-08 The Handbook of Logic in Artificial Intelligence and Logic Programming is a multi volume work covering all major areas of the application of logic to artificial intelligence and logic programming The authors are chosen on an international basis and are leaders in the fields covered Volume 5 is the last in this well regarded series Logic is now widely recognized as one of the foundational disciplines of computing It has found applications in virtually all aspects of the subject from software and hardware engineering to programming languages and artificial intelligence In response to the growing need for an in depth survey of these applications the Handbook of Logic in Artificial Intelligence and its companion the Handbook of Logic in Computer Science have been created The Handbooks are a combination of authoritative exposition comprehensive survey and fundamental research exploring the underlying themes in the various areas Some mathematical background is assumed and much of the material will be of interest to logicians and mathematicians Volume 5 focuses particularly on logic programming The chapters which in many cases are of monograph length and scope emphasize possible unifying themes

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Heroes by Cormier, Robert This a post-war story about Frenchtown in Canada, and about how all of the towns' inhabitants, especially the veterans, have been shaped by the war. Cormier ... Heroes (novel) Heroes is a 1998 novel written by Robert Cormier. The novel is centred on the character Francis Cassavant, who has just returned to his childhood home of ... Heroes by Robert Cormier A serious well written YA novel exploring the nature of heroism, set in post WW2 USA but managing to retain a timeless quality. Francis Cassavant returns to ... Heroes by Robert Cormier: 9780440227694 Francis Joseph Cassavant is eighteen. He has just returned home from the Second World War, and he has no face. He does have a gun and a mission: to murder. Book Review: Heroes by Robert Cormier - Sarah's Corner May 20, 2023 — The sense of complete loneliness and isolation Francis goes through are painful, and I felt for him and Nicole even though character development ... Heroes by Robert Cormier Plot Summary Aug 28, 2017 — After recovering in a veterans hospital in England, Francis returns home with one goal: to murder the man who had sent him to war, his childhood ... Heroes Heroes. Heroes. Robert Cormier. According to PW's starred review, this dark story of a WWII veteran who seeks revenge on an old mentor ""will hold fans

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