TEXTS AND MONOGRAPHS IN COMPUTER SCIENCE

# THE DESIGN OF WELL-STRUCTURED AND CORRECT PROGRAMS

Suad Alagić Michael A. Arbib

Springer-Verlag

# **The Design Of Wellstructured And Correct Programs**

**Kalle Nemvalts** 

#### The Design Of Wellstructured And Correct Programs:

The Design of Well-structured and Correct Programs Suad Alagić, Michael A. Arbib, 1978 Examples given written in The Design of Well-Structured and Correct Programs Suad Alagic, Michael A. Arbib, 2013-11-11 The major Pascal 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 Modem 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 recur sion 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 pro gramming 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 Program Verification Timothy T.R. Colburn, J.H. Fetzer, R.L. Rankin, 2012-12-06 Among conventional programming text the most important problems confronting computer science is that of developing a paradigm appropriate to the discipline Proponents of formal methods such as John McCarthy C A R Hoare and Edgar Dijkstra have advanced the position that computing is a mathematical activity and that computer science should model itself after mathematics Opponents of formal methods by contrast suggest that programming is the activity which is fundamental to computer science and that there are important differences that distinguish it from mathematics which therefore cannot provide a suitable paradigm Disagreement over the place of formal methods in computer science has recently arisen in the form of renewed interest in the nature and capacity of program verification as a method for establishing the reliability of software systems A paper that appeared in Communications of the ACM entitled Program Verification The Very Idea by James H Fetzer triggered an extended debate that has been discussed in several journals and that has endured for several years engaging the interest of computer scientists both theoretical and applied and of other thinkers from a wide range of backgrounds who want to understand computer science as a domain of inquiry The editors of this collection have brought together many of the most interesting and important studies that contribute to answering questions about the nature and the limits of computer science These include early papers advocating the mathematical paradigm by McCarthy Naur R Floyd and Hoare in Part I others that elaborate the paradigm by Hoare Meyer Naur and Scherlis and Scott in Part II challenges limits and alternatives explored by C Floyd Smith Blum and Naur in Part III and recent work focusing on formal verification by DeMillo Lipton and Perlis Fetzer

Cohn and Colburn in Part IV It provides essential resources for further study This volume will appeal to scientists philosophers and laypersons who want to understand the theoretical foundations of computer science and be appropriately positioned to evaluate the scope and limits of the discipline

Program Verification Using Ada McGettrick, 1982-07-29

Recursion Via Pascal Jeffrey Soden Rohl, 1984-07-26 This book is devoted to recursion in programming the technique by which the solution to a problem is expressed partly in terms of the solution to a simpler version of the same problem Ultimately the solution to the simplest version must be given explicitly In functional programming recursion has received its full due since it is quite often the only repetitive construct However the programming language used here is Pascal and the examples have been chosen accordingly It makes an interesting contrast with the use of recursion in functional and logic programming The early chapters consider simple linear recursion using examples such as finding the highest common factor of a pair of numbers and processing linked lists Subsequent chapters move up through binary recursion with examples which include the Towers of Hanoi problem and symbolic differentiation to general recursion The book contains well over 100 The ^ASecond Age of Computer Science Subrata Dasgupta,2018-05-01 Between the genesis of computer examples science in the 1960s and the advent of the World Wide Web around 1990 computer science evolved in significant ways The author has termed this period the second age of computer science This book describes its evolution in the form of several interconnected parallel histories **Introduction to Programming and Debugging in MTS.** Kalle Nemvalts, 1986 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

Algebraic Approaches to Program Semantics Ernest G. Manes, Michael A. Arbib, 2012-12-06 In the 1930s mathematical logicians studied the notion of effective comput ability using such notions as recursive functions A calculus and Turing machines The 1940s saw the construction of the first electronic computers and the next 20 years saw the evolution of higher level programming languages in which programs could be written in a convenient fashion independent thanks to compilers and interpreters of the architecture of any specific machine The development of such languages led in turn to the general analysis of questions of syntax structuring strings of symbols which could count as legal programs and semantics

determining the meaning of a program for example as the function it computes in transforming input data to output results An important approach to semantics pioneered by Floyd Hoare and Wirth is called assertion semantics given a specification of which assertions preconditions on input data should guarantee that the results satisfy desired assertions postconditions on output data one seeks a logical proof that the program satisfies its specification An alternative approach pioneered by Scott and Strachey is called denotational semantics it offers algebraic techniques for characterizing the denotation of i e the function computed by a program the properties of the program can then be checked by direct comparison of the denotation with the specification This book is an introduction to denotational semantics More specifically we introduce the reader to two approaches to denotational semantics the order semantics of Scott and Strachey and our own partially additive semantics Advances in Computers ,1989-07-17 Advances in Computers

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