

TEXTS AND MONOGRAPHS IN COMPUTER SCIENCE

SELECTED WRITINGS ON COMPUTING: A PERSONAL PERSPECTIVE

Edsger W. Dijkstra



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Selected Writings On Computing A Personal Perspective

Krzysztof R. Apt, Tony Hoare



Selected Writings On Computing A Personal Perspective:

Selected Writings on Computing: A personal Perspective Edsger W. Dijkstra, 2012-12-06 Since the summer of 1973 when I became a Burroughs Research Fellow my life has been very different from what it had been before The daily routine changed instead of going to the University each day where I used to spend most of my time in the company of others I now went there only one day a week and was most of the time that is when not travelling alone in my study In my solitude mail and the written word in general became more and more important The circumstance that my employer and I had the Atlantic Ocean between us was a further incentive to keep a fairly complete record of what I was doing The public part of that output found its place in what became known as the EWD series which can be viewed as a form of scientific correspondence possible since the advent of the copier That same copier makes it hard to estimate its actual distribution I myself made about two dozen copies of my texts but their recipients were welcome to act as further nodes of the distribution tree The decision to publish a selection from the EWD series in book form was at first highly embarrassing but as the months went by I got used to the idea As soon as some guiding principles had been adopted preferably not published elsewhere as varied and as representative as possible etc

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

Computer

Safety, Reliability, and Security Ibrahim Habli, Mark Suján, Friedemann Bitsch, 2021-08-25 This book constitutes the proceedings of the 40th International Conference on Computer Safety Reliability and Security SAFECOMP 2021 which took place in York UK in September 2021 The 17 full papers included in this volume were carefully reviewed and selected from 76 submissions They were organized in topical sections as follows machine learning safety assurance security engineering safety and assurance cases machine learning applications safety validation and simulation and fault tolerance **Program**

Verification Timothy T.R. Colburn, J.H. Fetzer, R.L. Rankin, 2012-12-06 Among 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 Informatics Curricula and Teaching Methods Lillian Cassel, R. Reis, 2013-04-17 Several aspects of

informatics curricula and teaching methods at the university level are reported in this volume including Challenges in defining an international curriculum The diversity in informatics curricula Computing programs for scientists and engineers Patterns of curriculum design Student interaction Teaching of programming Peer review in education This book contains a selection of the papers presented at the Working Conference on Informatics Curricula Teaching Methods and Best Practice ICTEM 2002 which was sponsored by the International Federation for Information Processing IFIP Working Group 3.2 and held in Florianópolis Brazil in July 2002 The working groups were organized in three parallel tracks Working Group 1

discussed the Directions and Challenges in Informatics Education The focus of Working Group 2 was Teaching Programming and Problem Solving Working Group 3 discussed Computing The Shape of an Evolving Discipline *Broad Band* Claire L. Evans, 2018-03-06 If you loved *Hidden Figures* or *The Rise of the Rocket Girls* you ll love Claire Evans breakthrough book on the women who brought you the internet written out of history until now This is a radically important timely work says Miranda July filmmaker and author of *The First Bad Man* The history of technology you probably know is one of men and machines garages and riches alpha nerds and programmers but from Ada Lovelace who wrote the first computer program in the Victorian Age to the cyberpunk Web designers of the 1990s female visionaries have always been at the vanguard of technology and innovation In fact women turn up at the very beginning of every important wave in technology They may have been hidden in plain sight their inventions and contributions touching our lives in ways we don t even realize but they have always been part of the story VICE reporter and YACHT lead singer Claire L Evans finally gives these unsung female heroes their due with her insightful social history of the Broad Band the women who made the internet what it is today Seek inspiration from Grace Hopper the tenacious mathematician who democratized computing by leading the charge for machine independent programming languages after World War II Meet Elizabeth Jake Feinler the one woman Google who kept the earliest version of the Internet online and Stacy Horn who ran one of the first ever social networks on a shoestring out of her New York City apartment in the 1980s Join the ranks of the pioneers who defied social convention to become database poets information wranglers hypertext dreamers and glass ceiling shattering dot com era entrepreneurs This inspiring call to action shines a light on the bright minds whom history forgot and shows us how they will continue to shape our world in ways we can no longer ignore Welcome to the Broad Band You re next **Internet of Things A to Z** Qusay F.

Hassan, 2018-06-13 A comprehensive overview of the Internet of Things core concepts technologies and applications Internet of Things A to Z offers a holistic approach to the Internet of Things IoT model The Internet of Things refers to uniquely identifiable objects and their virtual representations in an Internet like structure Recently there has been a rapid growth in research on IoT communications and networks that confirms the scalability and broad reach of the core concepts With contributions from a panel of international experts the text offers insight into the ideas technologies and applications of this subject The authors discuss recent developments in the field and the most current and emerging trends in IoT In addition the text is filled with examples of innovative applications and real world case studies Internet of Things A to Z fills the need for an up to date volume on the topic This important book Covers in great detail the core concepts enabling technologies and implications of the Internet of Things Addresses the business social and legal aspects of the Internet of Things Explores the critical topic of security and privacy challenges for both individuals and organizations Includes a discussion of advanced topics such as the need for standards and interoperability Contains contributions from an international group of experts in academia industry and research Written for ICT researchers industry professionals and lifetime IT learners as well as

academics and students Internet of Things A to Z provides a much needed and comprehensive resource to this burgeoning field

An Algebraic Approach to Compiler Design Augusto Sampaio,1997 This book investigates the design of compilers for procedural languages based on the algebraic laws which these languages satisfy The particular strategy adopted is to reduce an arbitrary source program to a general normal form capable of representing an arbitrary target machine This is achieved by a series of normal form reduction theorems which are proved algebraically from the more basic laws The normal form and the related reduction theorems can then be instantiated to design compilers for distinct target machines This constitutes the main novelty of the author s approach to compilation together with the fact that the entire process is formalised within a single and uniform semantic framework of a procedural language and its algebraic laws Furthermore by mechanising the approach using the OBJ3 term rewriting system it is shown that a prototype compiler is developed as a byproduct of its own proof of correctness

Reliable Software Technologies - Ada-Europe 2016 Marko Bertogna,Luís Miguel Pinho,Eduardo Quiñones,2016-05-30 This book constitutes the refereed proceedings of the 21st Ada Europe International Conference on Reliable Software Technologies Ada Europe 2016 held in Pisa Italy in June 2016 The revised 12 full papers presented together with one invited paper were carefully reviewed and selected from 28 submissions They are organized in topical sections on concurrency and parallelism testing and verification program correctness and robustness and real time systems

Turing's Legacy Rod Downey,2014-05-01 Alan Turing was an inspirational figure who is now recognised as a genius of modern mathematics In addition to leading the Allied forces code breaking effort at Bletchley Park in World War II he proposed the theoretical foundations of modern computing and anticipated developments in areas from information theory to computer chess His ideas have been extraordinarily influential in modern mathematics and this book traces such developments by bringing together essays by leading experts in logic artificial intelligence computability theory and related areas Together they give insight into this fascinating man the development of modern logic and the history of ideas The articles within cover a diverse selection of topics such as the development of formal proof differing views on the Church Turing thesis the development of combinatorial group theory and Turing s work on randomness which foresaw the ideas of algorithmic randomness that would emerge many years later

Computational Science -- ICCS 2005 V.S. Sunderam,2005-05-12 The three volume set LNCS 3514 3516 constitutes the refereed proceedings of the 5th International Conference on Computational Science ICCS 2005 held in Atlanta GA USA in May 2005 The 464 papers presented were carefully reviewed and selected from a total of 834 submissions for the main conference and its 21 topical workshops The papers span the whole range of computational science ranging from numerical methods algorithms and computational kernels to programming environments grids networking and tools These fundamental contributions dealing with computer science methodologies and techniques are complemented by papers discussing computational applications and needs in virtually all scientific disciplines applying advanced computational methods and tools to achieve new discoveries with greater

accuracy and speed

Component-Based Software Engineering Michel R. V. Chaudron, Clemens Szyperski, Ralf Reussner, 2008-10-06 This book constitutes the refereed proceedings of the 11th International ACM SIGSOFT Symposium on Component Based Software Engineering CBSE 2008 held in Karlsruhe Germany in October 2008 The 20 revised full papers and 3 short papers presented were carefully reviewed and selected from 70 submissions The papers feature new trends in global software services and distributed systems architectures to push the limits of established and tested component based methods tools and platforms The papers are organized in topical sections on performance engineering extra functional properties security and energy formal methods and model checking verification techniques run time infrastructures methods of design and development component models

Universal Smart Grid Agent for Distributed Power Generation Management Eric MSP Veith, 2017 Somewhere there is always wind blowing or the sun shining This maxim could lead the global shift from fossil to renewable energy sources suggesting that there is enough energy available to be turned into electricity But the already impressive numbers that are available today along with the European Union's 20/20/20 goal to power 20% of the EU energy consumption from renewables until 2020 might mislead us over the problem that the go to renewables readily available rely on a primary energy source mankind cannot control the weather At the same time the notion of the smart grid introduces a vast array of new data coming from sensors in the power grid at wind farms power plants transformers and consumers The new wealth of information might seem overwhelming but can help to manage the different actors in the power grid This book proposes to view the problem of power generation and distribution in the face of increased volatility as a problem of information distribution and processing It enhances the power grid by turning its nodes into agents that forecast their local power balance from historical data using artificial neural networks and the multi part evolutionary training algorithm described in this book They pro actively communicate power demand and supply adhering to a set of behavioral rules this book defines and finally solve the 0/1 knapsack problem of choosing offers in such a way that not only solves the disequilibrium but also minimizes line loss by elegant modeling in the Boolean domain The book shows that the Divide et Impera approach of a distributed grid control can lead to an efficient reliable integration of volatile renewable energy sources into the power grid

Programming Languages and Systems Hongseok Yang, 2017-04-10 This book constitutes the proceedings of the 26th European Symposium on Programming ESOP 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 36 papers presented in this volume were carefully reviewed and selected from 112 submissions They cover traditional as well as emerging topics in programming languages In detail they deal with semantic foundation and type system for probabilistic programming techniques for verifying concurrent or higher order programs programming languages for arrays or web data program analysis and verification of non standard program properties foundation and application of interactive theorem proving graph rewriting separation logic session type type theory and implicit computational complexity

Specification

and Verification of Multi-agent Systems Mehdi Dastani,Koen V. Hindriks,John-Jules Meyer,2010-07-20 Specification and Verification of Multi agent Systems presents a coherent treatment of the area of formal specification and verification of agent based systems with a special focus on verification of multi agent programs This edited volume includes contributions from international leading researchers in the area addressing logical formalisms and techniques such as model checking theorem proving and axiomatisations for semi automatic verification of agent based systems Chapters include Using Theorem Proving to Verify Properties of Agent Programs The Refinement of Multi Agent Systems Model Checking Agent Communication Directions for Agent Model Checking Model Checking Logics of Strategic Ability Complexity Correctness of Mult Agent Programs A Hybrid Approach The Norm Implementation Problem in Normative Multi Agent Systems A Verification Logic for GOAL Agents Using the Maude Term Rewriting Language for Agent Development with Formal Foundations The Cognitive Agents Specification Language and Verification Environment A Temporal Trace Language for Formal Modelling and Analysis of Agent Systemns Assurance of Agent Systems What Role Should Formal Verification Play Specification and Verification of Multi agent Systems is a comprehensive guide that makes a useful tool for researchers practitioners and students and serves as a reference work summarizing the state of the art in an accessible manner

Cellular Automata Franco Bagnoli,Jan Baetens,Stefania Bandini,Tommaso Matteuzzi,2024-09-01 This book constitutes the refereed proceedings of the 16th International Conference on Cellular Automata for Research and Industry Cellular Automata ACRI 2024 held in Florence Italy in September 9 11 2024 The 20 full papers presented were carefully reviewed and selected from 33 submissions They were organized in the following topical sections theory mathematical and physical models computational aspects and applications social and biological models

Managing Trade-offs in Adaptable Software Architectures Ivan Mistrik,Nour Ali,Rick Kazman,John Grundy,Bradley Schmerl,2016-08-12 Managing Trade Offs in Adaptable Software Architectures explores the latest research on adapting large complex systems to changing requirements To be able to adapt a system engineers must evaluate different quality attributes including trade offs to balance functional and quality requirements to maintain a well functioning system throughout the lifetime of the system This comprehensive resource brings together research focusing on how to manage trade offs and architect adaptive systems in different business contexts It presents state of the art techniques methodologies tools best practices and guidelines for developing adaptive systems and offers guidance for future software engineering research and practice Each contributed chapter considers the practical application of the topic through case studies experiments empirical validation or systematic comparisons with other approaches already in practice Topics of interest include but are not limited to how to architect a system for adaptability software architecture for self adaptive systems understanding and balancing the trade offs involved architectural patterns for self adaptive systems how quality attributes are exhibited by the architecture of the system how to connect the quality of a software architecture to system architecture or other system considerations and more Explains software architectural processes and metrics supporting

highly adaptive and complex engineering Covers validation verification security and quality assurance in system design Discusses domain specific software engineering issues for cloud based mobile context sensitive cyber physical ultra large scale internet scale systems mash up and autonomic systems Includes practical case studies of complex adaptive and context critical systems

Error-Free Polynomial Matrix Computations E.V. Krishnamurthy, 2012-12-06 This book is written as an introduction to polynomial matrix computations It is a companion volume to an earlier book on Methods and Applications of Error Free Computation by R T Gregory and myself published by Springer Verlag New York 1984 This book is intended for seniors and graduate students in computer and system sciences and mathematics and for researchers in the fields of computer science numerical analysis systems theory and computer algebra Chapter I introduces the basic concepts of abstract algebra including power series and polynomials This chapter is essentially meant for bridging the gap between the abstract algebra and polynomial matrix computations Chapter II is concerned with the evaluation and interpolation of polynomials The use of these techniques for exact inversion of polynomial matrices is explained in the light of currently available error free computation methods In Chapter III the principles and practice of Fourier evaluation and interpolation are described In particular the application of error free discrete Fourier transforms for polynomial matrix computations is considered

Adaptive Signal Processing Thomas S. Alexander, 2012-12-06 The creation of the text really began in 1976 with the author being involved with a group of researchers at Stanford University and the Naval Ocean Systems Center San Diego At that time adaptive techniques were more laboratory and mental curiosities than the accepted and pervasive categories of signal processing that they have become Over the last 10 years adaptive filters have become standard components in telephony data communications and signal detection and tracking systems Their use and consumer acceptance will undoubtedly only increase in the future The mathematical principles underlying adaptive signal processing were initially fascinating and were my first experience in seeing applied mathematics work for a paycheck Since that time the application of even more advanced mathematical techniques have kept the area of adaptive signal processing as exciting as those initial days The text seeks to be a bridge between the open literature in the professional journals which is usually quite concentrated concise and advanced and the graduate classroom and research environment where underlying principles are often more important

Algebraic Approaches to Program Semantics Ernest G. Manes, Michael A. Arbib, 2012-12-06 In the 1930s mathematical logicians studied the notion of effective computability 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

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