SELECTED WRITINGS ON COMPUTING: A PERSONAL PERSPECTIVE

Edsger W. Dijkstra

Selected Writings On Computing A Personal Perspective

Claire L. Evans

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 se1ection 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

Compositionality: The Significant Difference Willem-Paul de Roever,Hans Langmaack,Amir Pnueli,2003-05-20 This book originates from the International Symposium on Compositionality COMPOS 97 held in Bad Malente Germany in September 1997 The 25 chapters presented in revised full version reflect the current state of the art in the area of compositional reasoning about concurrency The book is a valuable reference for researchers and professionals interested in formal systems design and analysis it also is well suited for self study and use in advanced courses *Computer Simulation in Physics and Engineering* Martin Oliver Steinhauser,2012-12-06 This work is a needed reference for widely used techniques and methods of computer simulation in physics and other disciplines such as materials science Molecular dynamics computes a molecule s reactions and dynamics based on physical models Monte Carlo uses random numbers to image a system s behaviour when there are different possible outcomes with related probabilities The work conveys both the theoretical foundations as well as applications and tricks of the trade that often are scattered across various papers Thus it will meet a need and fill a gap for every scientist who needs computer simulations for his her task at hand In addition to being a reference case studies and exercises for use as course reading are included *Guide to Vulnerability Analysis for Computer Networks and Systems* Simon Parkinson,Andrew Crampton,Richard Hill,2018-09-04 This professional guide and reference examines the challenges of assessing security vulnerabilities in computing infrastructure Various aspects of vulnerability assessment are covered in detail including recent advancements in reducing the requirement for expert knowledge through novel applications of artificial intelligence The work also offers a series of case studies on how to develop and perform vulnerability assessment techniques using start of the art intelligent mechanisms Topics and features provides tutorial activities and thought provoking questions in each chapter together with numerous case studies introduces the fundamentals of vulnerability assessment and reviews the state of the art of research in this area discusses vulnerability assessment frameworks including frameworks for industrial control and cloud systems examines a range of applications that make use of artificial intelligence to enhance the vulnerability assessment processes presents visualisation techniques that can be used to assist the vulnerability assessment process In addition to serving the needs of security practitioners and researchers this accessible volume is also ideal for students and instructors seeking a primer on artificial intelligence for vulnerability assessment or a supplementary text for courses on computer security networking and artificial intelligence *Computer Systems and Software Engineering: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources,2017-12-01 Professionals in the interdisciplinary field of computer science focus on the design operation and maintenance of computational systems and software Methodologies and tools of engineering are utilized alongside computer applications to develop efficient and precise information databases Computer Systems and Software Engineering Concepts Methodologies Tools and Applications is a comprehensive reference source for the latest scholarly material on trends techniques and uses of various technology applications and examines the benefits and challenges of these computational

developments Highlighting a range of pertinent topics such as utility computing computer security and information systems applications this multi volume book is ideally designed for academicians researchers students web designers software developers and practitioners interested in computer systems and software engineering **Computer Safety, Reliability, and Security** Ibrahim Habli,Mark Sujan,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 Florian polis 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 brogrammers 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 algberaic 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   **Self-Stabilizing Systems** Ajoy K. Datta,Ted Herman,2001-01-01 Physicalsystemswhichrightthemselvesafterbeingdisturbedevokeourcuriosity becausewe wantto understand howsuchsystemsareableto reactto unexpected stimuli Themechanismsareallthe morefascinatingwhensystemsarecomposed of small simple units and the ability of the system to self stabilize emerges out of its components Faithful computer simulations of such physical systems exhibit the self stabilizing property but in the realm of

computing particularly for distributed systems wehavegreaterambition We imaginethat all manner of software ranging from basic communication protocols to high level applications could enjoy self corrective properties Self stabilizing software o ers a unique non traditional approach to the c cial problem of transient fault tolerance Many successful instances of modern fault tolerant networks are based on principles of self stabilization Surprisingly the most widely accepted technical de nition of a self stabilizing system does not refer to faults it is the property that the system can be started in any i tial state possibly an illegal state and yet the system guarantees to behave properly in nite time This and similar de nitions break many traditional approaches to program design in which the programmer by habit makes sumptions about initial conditions The composition of self stabilizing systems initially seen as a daunting challenge has been transformed into a mana able task thanks to an accumulation of discoveries by many investigators search on various topics in self stabilization continues to supply new methods for constructing self stabilizing systems determines limits and applicability of the paradigm of self stabilization and connects self stabilization to related areas of fault tolerance and distributed computing **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 *Fun and Software* Olga Goriunova,2016-05-19 Fun and Software offers the untold story of fun as constitutive of the culture and aesthetics of computing Fun in computing is a mode of thinking making and experiencing It invokes and convolutes the question of rationalism and logical reason addresses the sensibilities and experience of computation and attests to its creative drives By exploring topics as diverse as the pleasure and pain of the programmer geek wit affects of play and coding as a bodily pursuit of the unique in recursive structures Fun and Software helps construct a different point of entry to the understanding of software as culture Fun is a form of production that touches on the foundations of formal logic and precise notation as well as rhetoric exhibiting connections between computing and paradox politics and aesthetics From the formation of the discipline of programming as an outgrowth of pure mathematics to its manifestation in contemporary and contradictory forms such as gaming data analysis and art fun is a powerful force that continues to shape our life with software as it becomes the key mechanism of contemporary society Including chapters from leading scholars programmers and artists Fun and Software makes a major contribution to the field of software studies and opens the topic of software to some of the most pressing concerns in contemporary theory *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 techniqu3es 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

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