

FOUNDATIONS OF COMPUTER SCIENCE III

PART 2 : LANGUAGES, LOGIC, SEMANTICS

J.W. DE BAKKER (ed.)

J. VAN LEEUWEN (ed.)

Foundations Of Computer Science Mathematical Centre Tracts

**Manfred Broy, Stephan Merz, Katharina
Spies**



Foundations Of Computer Science Mathematical Centre Tracts:

Mathematical Foundations of Computer Science 2000 Mogens Nielsen, Branislav Rovan, 2003-06-29 This book constitutes the refereed proceedings of the 25th International Symposium on Mathematical Foundations of Computer Science MFCS 2000 held in Bratislava Slovakia in August September 2000 The 57 revised full papers presented together with eight invited papers were carefully reviewed and selected from a total of 147 submissions The book gives an excellent overview on current research in theoretical informatics All relevant foundational issues from mathematical logics as well as from discrete mathematics are covered Anybody interested in theoretical computer science or the theory of computing will benefit from this book

Handbook of Logic in Computer Science: Volume 5. Algebraic and Logical Structures S. Abramsky, Dov M. Gabbay, T. S. E. Maibaum, 2001-01-25 This handbook volume covers fundamental topics of semantics in logic and computation The chapters some monographic in length were written following years of co ordination and follow a thematic point of view The volume brings the reader up to front line research and is indispensable to any serious worker in the areas

Specification and Verification of Concurrent Systems Charles Rattray, 2013-11-11 This volume contains papers presented at the BCS FACS Workshop on Specification and Verification of Concurrent Systems held on 6 8 July 1988 at the University of Stirling Scotland Specification and verification techniques are playing an increasingly important role in the design and production of practical concurrent systems The wider application of these techniques serves to identify difficult problems that require new approaches to their solution and further developments in specification and verification The Workshop aimed to capture this interplay by providing a forum for the exchange of the experience of academic and industrial experts in the field Presentations included surveys original research practical experience with methods tools and environments in the following or related areas Object oriented process data and logic based models and specification methods for concurrent systems Verification of concurrent systems Tools and environments for the analysis of concurrent systems Applications of specification languages to practical concurrent system design and development We should like to thank the invited speakers and all the authors of the papers whose work contributed to making the Workshop such a success We were particularly pleased with the international response to our call for papers Invited Speakers Pierre America Philips Research Laboratories University of Warwick Professor M Joseph David Freestone British Telecom Organising Committee Charles Rattray Dr Muffy Thomas Dr Simon Jones Dr John Cooke Professor Ken Turner Derek Coleman Maurice Naftalin Dr Peter Scharbach vi Preface We would like to acknowledge the financial contribution made by SD Systems Designers pie Camberley Surrey

Embedded Systems Handbook 2-Volume Set Richard Zurawski, 2018-10-08 During the past few years there has been an dramatic upsurge in research and development implementations of new technologies and deployments of actual solutions and technologies in the diverse application areas of embedded systems These areas include automotive electronics industrial automated systems and building automation and control Comprising 48 chapters and the contributions

of 74 leading experts from industry and academia the Embedded Systems Handbook Second Edition presents a comprehensive view of embedded systems their design verification networking and applications The contributors directly involved in the creation and evolution of the ideas and technologies presented offer tutorials research surveys and technology overviews exploring new developments deployments and trends To accommodate the tremendous growth in the field the handbook is now divided into two volumes New in This Edition Processors for embedded systems Processor centric architecture description languages Networked embedded systems in the automotive and industrial automation fields Wireless embedded systems Embedded Systems Design and Verification Volume I of the handbook is divided into three sections It begins with a brief introduction to embedded systems design and verification The book then provides a comprehensive overview of embedded processors and various aspects of system on chip and FPGA as well as solutions to design challenges The final section explores power aware embedded computing design issues specific to secure embedded systems and web services for embedded devices Networked Embedded Systems Volume II focuses on selected application areas of networked embedded systems It covers automotive field industrial automation building automation and wireless sensor networks This volume highlights implementations in fast evolving areas which have not received proper coverage in other publications Reflecting the unique functional requirements of different application areas the contributors discuss inter node communication aspects in the context of specific applications of networked embedded systems

Embedded Systems Handbook Richard Zurawski, 2018-09-03 Considered a standard industry resource the Embedded Systems Handbook provided researchers and technicians with the authoritative information needed to launch a wealth of diverse applications including those in automotive electronics industrial automated systems and building automation and control Now a new resource is required to report on current developments and provide a technical reference for those looking to move the field forward yet again Divided into two volumes to accommodate this growth the Embedded Systems Handbook Second Edition presents a comprehensive view on this area of computer engineering with a currently appropriate emphasis on developments in networking and applications Those experts directly involved in the creation and evolution of the ideas and technologies presented offer tutorials research surveys and technology overviews that explore cutting edge developments and deployments and identify potential trends This first self contained volume of the handbook Embedded Systems Design and Verification is divided into three sections It begins with a brief introduction to embedded systems design and verification It then provides a comprehensive overview of embedded processors and various aspects of system on chip and FPGA as well as solutions to design challenges The final section explores power aware embedded computing design issues specific to secure embedded systems and web services for embedded devices Those interested in taking their work with embedded systems to the network level should complete their study with the second volume Network Embedded Systems

Algebraic Methodology and Software Technology Martin Wirsing, Maurice Nivat, 1996-06-19 Content Description Includes

bibliographical references and index *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 **Automata, Languages and Programming** J. Loeckx, 2013-12-14 The Second Colloquium on Automata Languages and Programming is the successor of a similar Colloquium organized by IRIA in Paris July 3-7 1972 The present Colloquium which takes place at the University of Saarbrücken from July 29th to August 2nd 1974 is sponsored by the Gesellschaft für Informatik and organized in cooperation with the Special Interest Group on Automata and Computability Theory SIGACT and with the European Association for Theoretical Computer Science EATCS As its predecessor the present Colloquium is devoted to the theoretical bases of computer science This volume contains the text of the different lectures of the Colloquium which have been selected by the Program Committee out of about 130 submitted papers About one third of the papers of this volume is concerned with formal language theory one other third with the theory of computation and the rest with complexity theory automata theory programming languages etc **Scientific and Technical Aerospace Reports**, 1984 Concurrency, Compositionality, and Correctness Dennis Dams, Ulrich Hannemann, Martin Steffen, 2010-02-24 This Festschrift volume published in honor of Willem Paul de Roever contains 19 detailed papers written by the friends and colleagues of the honoree all eminent scientists in their own right These are preceded by a detailed bibliography and rounded off at the end of the book with a gallery of photographs The theme under which the papers have been collected is Concurrency Compositionality and Correctness reflecting the focus of Willem Paul de Roever's research career Topics addressed include model checking computer science and state machines ontology and mereology of domains game theory compiler correctness fair scheduling and encryption algorithms Formal Methods for Software Engineering Markus Roggenbach, Antonio Cerone, Bernd-Holger Schlingloff, Gerardo Schneider, Siraj Ahmed Shaikh, 2022-06-22 Software programs are formal entities with precise meanings independent of their programmers so the transition from ideas to programs necessarily involves a formalisation at some point The first part of this graduate level introduction to formal methods develops an understanding of what constitutes formal methods and what their place is in Software Engineering It also introduces logics as languages to describe reasoning and the process algebra CSP as a language to represent behaviours The second part offers specification and testing methods for formal development of software based on the modelling languages CASL and UML The third part takes the reader into the

application domains of normative documents human machine interfaces and security Use of notations and formalisms is uniform throughout the book Topics and features Explains foundations and introduces specification verification and testing methods Explores various application domains Presents realistic and practical examples illustrating concepts Brings together contributions from highly experienced educators and researchers Offers modelling and analysis methods for formal development of software Suitable for graduate and undergraduate courses in software engineering this uniquely practical textbook will also be of value to students in informatics as well as to scientists and practical engineers who want to learn about or work more effectively with formal theories and methods Markus Roggenbach is a Professor in the Dept of Computer Science of Swansea University Antonio Cerone is an Associate Professor in the Dept of Computer Science of Nazarbayev University Nur Sultan Bernd Holger Schlingloff is a Professor in the Institut für Informatik of Humboldt Universität zu Berlin Gerardo Schneider is a Professor in the Dept of Computer Science and Engineering of University of Gothenburg Siraj Ahmed Shaikh is a Professor in the Institute for Future Transport and Cities of Coventry University The companion site for the book offers additional resources including further material for selected chapters prepared lab classes a list of errata slides and teaching material and virtual machines with preinstalled tools and resources for hands on experience with examples from the book The URL is <https://sefm-book.github.io>

Proof, Language, and Interaction Robin Milner, 2000 This collection of essays reflects the breadth of research in computer science Following a biography of Robin Milner it contains sections on semantic foundations programming logic programming languages concurrency and mobility Ten Years Of Concurrency Semantics: Selected Papers Of The Amsterdam Concurrency Group J W De Bakker, J Rutten, 1992-09-22 This collection of reprints describes a unified treatment of semantics covering a wide range of notions in parallel languages Included are several foundational and introductory papers developing the methodology of metric semantics studies on the comparative semantics of parallel object oriented and logic programming and papers on full abstraction and transition system specifications In addition links with process algebra and the theory of domain equations are established Throughout a uniform proof technique is used to relate operational and denotational models The approach is flexible in that both linear time branching time or bisimulation and intermediate models can be handled as well as schematic and interpreted elementary actions The reprints are preceded by an extensive introduction surveying related work on metric semantics

Automata, Languages and Programming M. Nielsen, E. M. Schmidt, 2005-11-23 **Fundamentals of Computation Theory** Horst Reichel, 1995-08-16 This book presents the proceedings of the 10th International Conference on Fundamentals of Computation Theory FCT 95 held in Dresden Germany in August 1995 The volume contains five invited lectures and 32 revised papers carefully selected for presentation at FCT 95 A broad spectrum of theoretical computer science is covered among topics addressed are algorithms and data structures automata and formal languages categories and types computability and complexity computational logics computational geometry systems specification learning theory parallelism

and concurrency rewriting and high level replacement systems and semantics **Information Processing** ,1977

Formal Systems Specification Manfred Broy,Stephan Merz,Katharina Spies,1996-11-06 The RPC memory specification problem was proposed by Broy and Lamport as a case study in the formal design of distributed and concurrent systems As a realistic example typical for operating systems and hardware design the RPC memory problem was used as the basis for comparing various approaches to formal specification refinement and verification Preliminary solutions were discussed during a workshop at Schloss Dagstuhl Germany in September 1994 Then an extensive discussion took place between the referees and authors Finally 15 thoroughly revised papers were accepted for inclusion in this volume in full detail together with the problem statement and a synopsis **Programming Methodology** Annabelle McIver,Carroll Morgan,2012-12-06

The second half of the twentieth century saw an astonishing increase in computing power today computers are unbelievably faster than they used to be they have more memory they can communicate routinely with remote machines all over the world and they can fit on a desktop But despite this remarkable progress the voracity of modem applications and user expectations still pushes technology right to the limit As hardware engineers build ever more powerful machines so too must software become more sophisticated to keep up Medium to large scale programming projects need teams of people to pull everything together in an acceptable timescale The question of how programmers understand their own tasks and how they fit together with those of their colleagues to achieve the overall goal is a major concern Without that understanding it would be practically impossible to realise the commercial potential of our present day computing hardware That programming has been able to keep pace with the formidable advances in hardware is due to the similarly formidable advances in the principles for design construction and organisation of programs The efficacy of these methods and principles speaks for itself computer technology is all pervasive but even more telling is that they are beginning to feed back and influence hardware design as well The study of such methods is called programming methodology whose topics range over system and domain modelling concurrency object orientation program specification and validation That is the theme of this collection

Computational Logic Dov M. Gabbay,Jörg H. Siekmann,John Woods,2014-12-09 Handbook of the History of Logic brings to the development of logic the best in modern techniques of historical and interpretative scholarship Computational logic was born in the twentieth century and evolved in close symbiosis with the advent of the first electronic computers and the growing importance of computer science informatics and artificial intelligence With more than ten thousand people working in research and development of logic and logic related methods with several dozen international conferences and several times as many workshops addressing the growing richness and diversity of the field and with the foundational role and importance these methods now assume in mathematics computer science artificial intelligence cognitive science linguistics law and many engineering fields where logic related techniques are used inter alia to state and settle correctness issues the field has diversified in ways that even the pure logicians working in the early decades of the twentieth century could have

hardly anticipated Logical calculi which capture an important aspect of human thought are now amenable to investigation with mathematical rigour and computational support and fertilized the early dreams of mechanised reasoning

Calculus

The Dartmouth Conference in 1956 generally considered as the birthplace of artificial intelligence raised explicitly the hopes for the new possibilities that the advent of electronic computing machinery offered logical statements could now be executed on a machine with all the far reaching consequences that ultimately led to logic programming deduction systems for mathematics and engineering logical design and verification of computer software and hardware deductive databases and software synthesis as well as logical techniques for analysis in the field of mechanical engineering This volume covers some of the main subareas of computational logic and its applications Chapters by leading authorities in the field Provides a forum where philosophers and scientists interact Comprehensive reference source on the history of logic

Advanced Topics in Bisimulation and Coinduction Davide Sangiorgi, Jan Rutten, 2011-10-13 Coinduction is a method for specifying and reasoning about infinite data types and automata with infinite behaviour In recent years it has come to play an ever more important role in the theory of computing It is studied in many disciplines including process theory and concurrency modal logic and automata theory Typically coinductive proofs demonstrate the equivalence of two objects by constructing a suitable bisimulation relation between them This collection of surveys is aimed at both researchers and Master s students in computer science and mathematics and deals with various aspects of bisimulation and coinduction with an emphasis on process theory Seven chapters cover the following topics history algebra and coalgebra algorithmics logic higher order languages enhancements of the bisimulation proof method and probabilities Exercises are also included to help the reader master new material

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