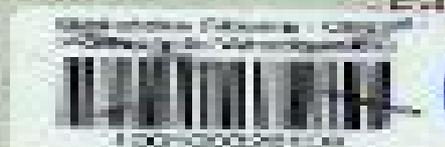


# Lecture Notes in Computer Science

Edited by G. Goos and J. Hartmanis



280

Maria Venturini Zilli (Ed.)

## Mathematical Models for the Semantics of Parallelism

Advanced School  
Rome, Italy, September/October 1980  
Proceedings



Springer-Verlag

**Mathematical Models For The Semantics Of Parallelism**  
**Lecture Notes In Computer Science Volume 28**

**Nasrullah Memon,Jonathan David  
Farley,David L. Hicks,Torben Rosenorn**



## **Mathematical Models For The Semantics Of Parallelism Lecture Notes In Computer Science Volume 28:**

*Mathematical Models for the Semantics of Parallelism* Marisa Venturini Zilli, 1987-10-07 The papers collected in this volume are most of the material presented at the Advanced School on Mathematical Models for the Semantics of Parallelism held in Rome September 24 October 1 1986 The need for a comprehensive and clear presentation of the several semantical approaches to parallelism motivated the stress on mathematical models by means of which comparisons among different approaches can also be performed in a perspicuous way

**Advances in Petri Nets 1991** Helmut Plünnecke, Wolfgang Reisig, 1991 The main idea behind the series of volumes *Advances in Petri Nets* is to present to the general computer science community recent results which are the most representative and significant for the development of the area The papers for the volumes are drawn mainly from the annual International Conferences on Applications and Theory of Petri Nets Selected papers from the latest conference are independently refereed and revised and extended as necessary Some further papers submitted directly to the editor are included *Advances in Petri Nets 1991* covers the 11th International Conference on Applications and Theory of Petri Nets held in Paris France in June 1991 The volume contains the Bibliography of Petri Nets 1990 prepared by H Plünnecke and W Reisig with over 4000 entries PUBLISHER S WEBSITE [Formal Models and Semantics](#)

Bozzano G Luisa, 2014-06-28 The second part of this Handbook presents a choice of material on the theory of automata and rewriting systems the foundations of modern programming languages logics for program specification and verification and some chapters on the theoretic modelling of advanced information processing

**Coordination Programming: Mechanisms, Models And Semantics** Jean-marc Andreoli, Chris Hankin, D Le Metayer, 1996-08-30 Coordination considered abstractly is an ubiquitous notion in computer science for example programming languages coordinate elementary instructions operating systems coordinate accesses to hardware resources database transaction schedulers coordinate accesses to shared data etc All these situations have some common features which can be identified at the abstract level as coordination mechanisms This book focuses on a class of coordination models where multiple pieces of software coordinate their activities through some shared dataspace The book has three parts Part 1 presents the main coordination models studied in this book  $\Gamma$  LO TAO  $\Lambda$ N Part 2 focuses on various semantics aspects of coordination applied mainly to  $\Gamma$  Part 3 presents actual implementations of coordination models and an application

*Mathematical Foundations of Programming Semantics* Stephen Brookes, 1994-05-20 This volume is the proceedings of the Ninth International Conference on the Mathematical Foundations of Programming Semantics held in New Orleans in April 1993 The focus of the conference series is the semantics of programming languages and the mathematics which supports the study of the semantics The semantics is basically denotation The mathematics may be classified as category theory lattice theory or logic Recent conferences and workshops have increasingly emphasized applications of the semantics and mathematics The study of the semantics develops with the mathematics and the mathematics is inspired by the applications

in semantics The volume presents current research in denotational semantics and applications of category theory logic and lattice theory to semantics Modeling and Analysis of Communicating Systems Jan Friso Groote, Mohammad Reza Mousavi, 2023-05-09 Rigorous theory and real world applications for modeling and analysis of the behavior of complex communicating computer systems Complex communicating computer systems computers connected by data networks and in constant communication with their environments do not always behave as expected This book introduces behavioral modeling a rigorous approach to behavioral specification and verification of concurrent and distributed systems It is among the very few techniques capable of modeling systems interaction at a level of abstraction sufficient for the interaction to be understood and analyzed Offering both a mathematically grounded theory and real world applications the book is suitable for classroom use and as a reference for system architects The book covers the foundation of behavioral modeling using process algebra transition systems abstract data types and modal logics Exercises and examples augment the theoretical discussion The book introduces a modeling language mCRL2 that enables concise descriptions of even the most intricate distributed algorithms and protocols Using behavioral axioms and such proof methods as confluence cones and foci readers will learn how to prove such algorithms equal to their specifications Specifications in mCRL2 can be simulated visualized or verified against their requirements An extensive mCRL2 toolset for mechanically verifying the requirements is freely available online this toolset has been successfully used to design and analyze industrial software that ranges from healthcare applications to particle accelerators at CERN Appendixes offer material on equations and notation as well as exercise solutions

*Comparative Metric Semantics of Programming Languages* Franck van Breughel, 2012-12-06 During the last three decades several different styles of semantics for programming languages have been developed This book compares two of them the operational and the denotational approach On the basis of several examples we show how to define operational and denotational semantic models for programming languages Furthermore we introduce a general technique for comparing various semantic models for a given language We focus on different degrees of nondeterminism in programming languages Nondeterminism arises naturally in concurrent languages It is also an important concept in specification languages In the examples discussed the degree of nondeterminism ranges from a choice between two alternatives to a choice between a collection of alternatives indexed by a closed interval of the real numbers The former arises in a language with nondeterministic choices A real time language with dense choices gives rise to the latter We also consider the nondeterministic random assignment and parallel composition both couched in a simple language Besides nondeterminism our four example languages contain some form of recursion a key ingredient of programming languages **Handbook Of Graph Grammars And Computing By Graph Transformation, Vol 1: Foundations** Grzegorz Rozenberg, 1997-02-27 Graph grammars originated in the late 60s motivated by considerations about pattern recognition and compiler construction Since then the list of areas which have interacted with the development of graph grammars has grown quite impressively

Besides the aforementioned areas it includes software specification and development VLSI layout schemes database design modeling of concurrent systems massively parallel computer architectures logic programming computer animation developmental biology music composition visual languages and many others The area of graph grammars and graph transformations generalizes formal language theory based on strings and the theory of term rewriting based on trees As a matter of fact within the area of graph grammars graph transformation is considered a fundamental programming paradigm where computation includes specification programming and implementation Over the last 25 odd years graph grammars have developed at a steady pace into a theoretically attractive and well motivated research field In particular they are now based on very solid foundations which are presented in this volume Volume 1 of the indispensable Handbook of Graph Grammars and Computing by Graph Transformations includes a state of the art presentation of the foundations of all the basic approaches to rule based graph specification and transformation algebraic approach logic approach node based rewriting hyper edge based rewriting programmed graph rewriting and 2 structures The book has been written in a tutorial survey style to enhance its usefulness

**Unconventional Programming Paradigms** Jean-Pierre Banâtre,2005-07-15

Unconventional approaches to programming have long been developed in various niches and out of curiosity and they constitute a reservoir of alternative avenues to deal with unknown programming challenges New paradigms of programming are currently experiencing a renewed period of interest and growth to cope with problems from specific application domains This book constitutes the thoroughly refereed post proceedings of the International Workshop on Unconventional Programming Paradigms UPP 2004 held at Le Mont Saint Michel France in September 2004 The 26 revised full papers presented together with an invited paper on quantum computing were carefully reviewed for presentation in the book The papers are organized in topical sections on chemical computing amorphous computing bio inspired computing autonomic computing and generative programming

Mathematical Methods in Counterterrorism Nasrullah Memon,Jonathan David Farley,David L. Hicks,Torben Rosenorn,2009-08-25 Terrorism is one of the serious threats to international peace and security that we face in this decade No nation can consider itself immune from the dangers it poses and no society can remain disengaged from the efforts to combat it The term counterterrorism refers to the techniques strategies and tactics used in the fight against terrorism Counterterrorism efforts involve many segments of society especially governmental agencies including the police military and intelligence agencies both domestic and international The goal of counterterrorism efforts is to not only detect and prevent potential future acts but also to assist in the response to events that have already occurred A terrorist cell usually forms very quietly and then grows in a pattern spanning international borders oceans and hemispheres Surprising to many an effective weapon just as quiet mathematics can serve as a powerful tool to combat terrorism providing the ability to connect the dots and reveal the organizational pattern of something so sinister The events of 9 11 instantly changed perceptions of the word terrorist and work especially in the United States The international community was

confronted with the need to tackle a threat which was not confined to a discreet physical location This is a particular challenge to the standard instruments for projecting the legal authority of states and their power to uphold public safety As demonstrated by the events of the 9 11 attack we know that terrorist attacks can happen anywhere

**Handbook of Graph Grammars and Computing by Graph Transformation** Grzegorz Rozenberg,1997-01-01 Graph grammars originated in the late 60s motivated by considerations about pattern recognition and compiler construction Since then the list of areas which have interacted with the development of graph grammars has grown quite impressively Besides the aforementioned areas it includes software specification and development VLSI layout schemes database design modeling of concurrent systems massively parallel computer architectures logic programming computer animation developmental biology music composition visual languages and many others The area of graph grammars and graph transformations generalizes formal language theory based on strings and the theory of term rewriting based on trees As a matter of fact within the area of graph grammars graph transformation is considered a fundamental programming paradigm where computation includes specification programming and implementation

**A Calculus of Distributed and Parallel Processes** Clemens H. Cap,2012-12-06 It is the good reader that makes the good book RALPH WALDO EMERSON Society Solitude In the course of two projects the author of this book was involved in the design of the platforms PARFORM CS93 and LOLA Cap94 CS for the support of parallel computing in distributed systems The former system was geared towards the highly efficient use of idle resources in networks of workstations and the latter system was intended as a scalability study How many workstations in the global Internet can be used simultaneously for solving a massively parallel problem In one of the experiments conducted with these systems up to 800 workstations on all five continents were cooperating for the solution of a search problem from molecular biology Cap94 The most important lessons which the author was forced to learn during the course of these projects were not to rely on any documentation of network and low level system calls to use neither common sense nor mathematical logic during the design of a large distributed system but to be happy with a working program and not to ask why it would work

**A Rigorous Semantics for BPMN 2.0 Process Diagrams** Felix Kossak,Christa Illibauer,Verena Geist,Jan Kubovy,Christine Natschläger,Thomas Ziebermayr,Theodorich Kopetzky,Bernhard Freudenthaler,Klaus-Dieter Schewe,2015-02-04 This book provides the most complete formal specification of the semantics of the Business Process Model and Notation 2 0 standard BPMN available to date in a style that is easily understandable for a wide range of readers not only for experts in formal methods but e g also for developers of modeling tools software architects or graduate students specializing in business process management BPMN issued by the Object Management Group is a widely used standard for business process modeling However major drawbacks of BPMN include its limited support for organizational modeling its only implicit expression of modalities and its lack of integrated user interaction and data modeling Further in many cases the syntactical and in particular semantic definitions of BPMN are inaccurate incomplete or inconsistent The book addresses

concrete issues concerning the execution semantics of business processes and provides a formal definition of BPMN process diagrams which can serve as a sound basis for further extensions i e in the form of horizontal refinements of the core language To this end the Abstract State Machine ASMs method is used to formalize the semantics of BPMN ASMs have demonstrated their value in various domains e g specifying the semantics of programming or modeling languages verifying the specification of the Java Virtual Machine or formalizing the ITIL change management process This kind of improvement promotes more consistency in the interpretation of comprehensive models as well as real exchangeability of models between different tools In the outlook at the end of the book the authors conclude with proposing extensions that address actor modeling including an intuitive way to denote permissions and obligations integration of user centric views a refined communication concept and data integration

### **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

Instruction Sequences for Computer Science Jan A Bergstra,Cornelis A. Middelburg,2012-06-12 This book demonstrates that the concept of an instruction sequence offers a novel and useful viewpoint on issues relating to diverse subjects in computer science Selected issues relating to well known subjects from the theory of computation and the

area of computer architecture are rigorously investigated in this book thinking in terms of instruction sequences The subjects from the theory of computation to wit the halting problem and non uniform computational complexity are usually investigated thinking in terms of a common model of computation such as Turing machines and Boolean circuits The subjects from the area of computer architecture to wit instruction sequence performance instruction set architectures and remote instruction processing are usually not investigated in a rigorous way at all

**Handbook of Parallel Constraint Reasoning** Youssef Hamadi,Lakhdar Sais,2018-04-05 This is the first book presenting a broad overview of parallelism in constraint based reasoning formalisms In recent years an increasing number of contributions have been made on scaling constraint reasoning thanks to parallel architectures The goal in this book is to overview these achievements in a concise way assuming the reader is familiar with the classical sequential background It presents work demonstrating the use of multiple resources from single machine multi core and GPU based computations to very large scale distributed execution platforms up to 80 000 processing units The contributions in the book cover the most important and recent contributions in parallel propositional satisfiability SAT maximum satisfiability MaxSAT quantified Boolean formulas QBF satisfiability modulo theory SMT theorem proving TP answer set programming ASP mixed integer linear programming MILP constraint programming CP stochastic local search SLS optimal path finding with A model checking for linear time temporal logic MC LTL binary decision diagrams BDD and model based diagnosis MBD The book is suitable for researchers graduate students advanced undergraduates and practitioners who wish to learn about the state of the art in parallel constraint reasoning

**Proceedings of the Sixth ACM SIGPLAN International Conference on Functional Programming (ICFP '01), Florence, Italy, September 3-5, 2001**,2001

**Object-Based Models and Languages for Concurrent Systems** Paolo Ciancarini,Oscar Nierstrasz,Akinori Yonezawa,1995-06-20 This volume presents carefully refereed versions of the best papers presented at the Workshop on Models and Languages for Coordination of Parallelism and Distribution held during ECOOP 94 in Bologna Italy in July 1994 Recently a new class of models and languages for distributed and parallel programming has evolved all these models share a few basic concepts simple features for data description and a small number of mechanisms for coordinating the work of agents in a distributed setting This volume demonstrates that integrating such features with those known from concurrent object oriented programming is very promising with regard to language support for distribution and software composition

**Mathematical Foundations of Computer Science 1995** Juraj Wiedermann,1995-08-16 This book presents the proceedings of the 20th International Symposium on Mathematical Foundations of Computer Science MFCS 95 held in Prague Czech Republic in August September 1995 The book contains eight invited papers and two abstracts of invited talks by outstanding scientists as well as 44 revised full research papers selected from a total of 104 submissions All relevant aspects of theoretical computer science are addressed particularly the mathematical foundations the papers are organized in sections on structural complexity algorithms complexity theory graphs in models of computation lower bounds formal

languages unification rewriting and type theory distributed computation concurrency semantics model checking and formal  
calculi     *Algorithmic Languages* Jacobus Willem Bakker, J. C. van Vliet, 1981

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