

# Algebraic Theory of Processes

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July 2019

# Algebraic Theory Of Processes

**Ed Brinksma, Holger Hermanns, Joost-  
Pieter Katoen**



## **Algebraic Theory Of Processes:**

Algebraic Theory of Processes Matthew Hennessy, 1988 Algebraic Theory of Processes provides the first general and systematic introduction to the semantics of concurrent systems a relatively new research area in computer science

Algebraic Theory of Processes Matthew Hennessy, 1988-01 paperback not available in U S and Canada      **An Algebraic Theory of Processes** Matthew Hennessy, 1985      **An Algebraic Theory of Processes** Matthew Hennessy, 1985

**Handbook of Process Algebra** J.A. Bergstra, A. Ponse, S.A. Smolka, 2001-03-16 Process Algebra is a formal description technique for complex computer systems especially those involving communicating concurrently executing components It is a subject that concurrently touches many topic areas of computer science and discrete math including system design notations logic concurrency theory specification and verification operational semantics algorithms complexity theory and of course algebra This Handbook documents the fate of process algebra since its inception in the late 1970 s to the present It is intended to serve as a reference source for researchers students and system designers and engineers interested in either the theory of process algebra or in learning what process algebra brings to the table as a formal system description and verification technique The Handbook is divided into six parts spanning a total of 19 self contained Chapters The organization is as follows Part 1 consisting of four chapters covers a broad swath of the basic theory of process algebra Part 2 contains two chapters devoted to the sub specialization of process algebra known as finite state processes while the three chapters of Part 3 look at infinite state processes value passing processes and mobile processes in particular Part 4 also three chapters in length explores several extensions to process algebra including real time probability and priority The four chapters of Part 5 examine non interleaving process algebras while Part 6 s three chapters address process algebra tools and applications

*Process Algebra: Equational Theories of Communicating Processes* J. C. M. Baeten, M. A. Reniers, 2010 Presents a unified overview of the various process algebras currently in use and sets the standard for the field      *Process Algebra with Timing* J.C.M. Baeten, C.A. Middelburg, 2013-03-09 This book is concerned with a number of theories that can be used for describing and analyzing systems of interacting components in case it is desirable or necessary to regard their time dependent behavior Society is becoming increasingly more dependent on complex computer based systems that are composed of several components that act concurrently and interact to synchronize and communicate with each other The complexity of these systems arises to a great extent from the many ways in which their components can interact The need that these components act and interact on time as well adds considerably to the complexity In developing such a system it is important to be able to acquire a better understanding of the relevant issues at the conceptual level to describe the system in a precise way at various levels of detail and to analyze it on the basis of the descriptions When the early algebraic theories about processes such as ACP 16 17 20 CCS 49 50 and CSP 27 39 were developed for that purpose the established opinion was still that timing is a concern that can more often than not be treated independently It is therefore not surprising that timing is deliberately

ignored in those theories They have now all been extended to deal with timing

**A Process Algebraic Approach to Software Architecture Design** Alessandro Aldini, Marco Bernardo, Flavio Corradini, 2010-03-14 In the old formal methods in computer science concurrency theory is receiving a constantly increasing interest This is especially true for process algebra Although it had been originally conceived as a means for reasoning about the semantics of concurrent programs process algebraic formalisms like CCS CSP ACP calculus and their extensions see e.g. [154, 119, 112, 22, 155, 181, 30] were soon used also for comprehending functional and nonfunctional aspects of the behavior of communicating concurrent systems The scientific impact of process calculi and behavioral equivalences at the base of process algebra is witnessed not only by a very rich literature It is in fact worth mentioning the standardization procedure that led to the development of the process algebraic language LOTOS [49] as well as the implementation of several modeling and analysis tools based on process algebra like CWB [70] and CADP [93] some of which have been used in industrial case studies Furthermore process calculi and behavioral equivalences are by now adopted in university level courses to teach the foundations of concurrent programming as well as the model driven design of concurrent distributed and mobile systems Nevertheless after 30 years since its introduction process algebra is rarely adopted in the practice of software development On the one hand its technicalities often obfuscate the way in which systems are modeled As an example if a process term comprises numerous occurrences of the parallel composition operator it is hard to understand the communications scheme among the various subterms On the other hand process algebra is perceived as being difficult to learn and use by practitioners as it is not close enough to the way they think of software systems

**Processes, Terms and Cycles: Steps on the Road to Infinity** Aart Middeldorp, 2005-12-13 This Festschrift is dedicated to Jan Willem Klop on the occasion of his 60th birthday The volume comprises a total of 23 scientific papers by close friends and colleagues written specifically for this book The papers are different in nature some report on new research others have the character of a survey and again others are mainly expository Every contribution has been thoroughly refereed at least twice In many cases the first round of referee reports led to significant revision of the original paper which was again reviewed The articles especially focus upon the lambda calculus term rewriting and process algebra the fields to which Jan Willem Klop has made fundamental contributions

**Introduction to Process Algebra** Wan Fokkink, 2013-03-09 Automated and semi automated manipulation of so called labelled transition systems has become an important means in discovering flaws in software and hardware systems Process algebra has been developed to express such labelled transition systems algebraically which enhances the ways of manipulation by means of equational logic and term rewriting The theory of process algebra has developed rapidly over the last twenty years and verification tools have been developed on the basis of process algebra often in cooperation with techniques related to model checking This textbook gives a thorough introduction into the basics of process algebra and its applications

**Handbook of Truly Concurrent Process Algebra** Yong Wang, 2023-12-01 Handbook of Truly Concurrent

Process Algebra provides readers with a detailed and in depth explanation of the algebra used for concurrent computing This complete handbook is divided into five Parts Algebraic Theory for Reversible Computing Probabilistic Process Algebra for True Concurrency Actors A Process Algebra Based Approach Secure Process Algebra and Verification of Patterns The author demonstrates actor models which are captured using the following characteristics Concurrency Asynchrony Uniqueness Concentration Communication Dependency Abstraction and Persistence Truly concurrent process algebras are generalizations of the corresponding traditional process algebras Handbook of Truly Concurrent Process Algebra introduces several advanced extensions and applications of truly concurrent process algebras Part 1 Algebraic Theory for Reversible Computing provides readers with all aspects of algebraic theory for reversible computing including the basis of semantics calculi for reversible computing and axiomatization for reversible computing Part 2 Probabilistic Process Algebra for True Concurrency provides readers with all aspects of probabilistic process algebra for true concurrency including the basis of semantics calculi for probabilistic computing axiomatization for probabilistic computing as well as mobile calculi for probabilistic computing Part 3 Actors A Process Algebra Based Approach bridges the two concurrent models process algebra and actors by capturing the actor model in the following characteristics Concurrency Asynchrony Uniqueness Concentration Communication Dependency Abstraction and Persistence Part 4 Secure Process Algebra demonstrates the advantages of process algebra in verifying security protocols it has a firmly theoretic foundation and rich expressive powers to describe security protocols Part 5 Verification of Patterns formalizes software patterns according to the categories of the patterns and verifies the correctness of patterns based on truly concurrent process algebra Every pattern is detailed according to a regular format to be understood and utilized easily which includes introduction to a pattern and its verifications Patterns of the vertical domains are also provided including the domains of networked objects and resource management To help readers develop and implement the software patterns scientifically the pattern languages are also presented Presents all aspects of full algebraic reversible computing including the basis of semantics calculi for full reversible computing and axiomatization for full reversible computing Introduces algebraic properties and laws for probabilistic computing one of the foundational concepts of Computer Science Presents the calculi for probabilistic computing including the basis of semantics and calculi for reversible computing

### **Recent Trends in Algebraic Development Techniques** Narciso

Martí-Oliet,Miguel Palomino,2013-04-11 This book constitutes the thoroughly refereed post conference proceedings of the 21st International Workshop on Algebraic Development Techniques WADT 2012 held in June 2012 in Salamanca Spain The 16 revised papers presented were carefully reviewed and selected from 25 presentations The workshop deals with the following topics foundations of algebraic specification other approaches to formal specification including process calculi and models of concurrent distributed and mobile computing specification languages methods and environments semantics of conceptual modeling methods and techniques model driven development graph transformations term rewriting and proof

systems integration of formal specification techniques formal testing and quality assurance validation and verification

*Algebra of Communicating Processes* Alban Ponse, Christiaan Verhoef, Sebastiaan F.M. van Vlijmen, 2012-12-06 ACP the Algebra of Communicating Processes is an algebraic approach to the study of concurrent processes initiated by Jan Bergstra and Jan Willem Klop in the early eighties These proceedings comprise the contributions to ACP94 the first workshop devoted to ACP The workshop was held at Utrecht University 16-17 May 1994 These proceedings are meant to provide an overview of current research in the area of ACP They contain fifteen contributions The first one is a classical paper on ACP by J.A. Bergstra and J.W. Klop The Algebra of Recursively Defined Processes and the Algebra of Regular Processes Report IW 235/83 Mathematical Centre Amsterdam 1983 It serves as an introduction to the remainder of the proceedings and indeed as a general introduction to ACP An extended abstract of this paper is published under the same title in the ICALP 84 proceedings Of the remaining contributions three were submitted by the invited speakers and the others were selected by the programme committee As for the presentations Jos Baeten, Rob van Glabbeek, Jan Friso Groote and Frits Vaandrager were each invited to deliver a lecture A paper relating to Frits Vaandrager's lecture has already been submitted for publication elsewhere and is not therefore included in these proceedings Gabriel Ciobanu, one of our guests, gave an impression of his work in an extra lecture Furthermore ten presentations were given on the basis of selected papers

**Lectures on Formal Methods and Performance Analysis** Ed Brinksma, Holger Hermanns, Joost-Pieter Katoen, 2003-06-29 Traditionally models and methods for the analysis of the functional correctness of reactive systems and those for the analysis of their performance and schedulability aspects have been studied by different research communities This has resulted in the development of successful but distinct and largely unrelated modeling and analysis techniques for both domains In many modern systems however the difference between their functional features and their performance properties has become blurred as relevant functionalities become inextricably linked to performance aspects e.g. isochronous data transfer for live video transmission During the last decade this trend has motivated an increased interest in combining insights and results from the field of formal methods traditionally focused on functionality with techniques for performance modeling and analysis Prominent examples of this cross-fertilization are extensions of process algebra and Petri nets that allow for the automatic generation of performance models the use of formal proof techniques to assess the correctness of randomized algorithms and extensions of model checking techniques to analyze performance requirements automatically We believe that these developments mark the beginning of a new paradigm for the modeling and analysis of systems in which qualitative and quantitative aspects are studied from an integrated perspective We are convinced that the further work towards the realization of this goal will be a growing source of inspiration and progress for both communities

**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 Structural Theory of Automata, Semigroups, and Universal Algebra Valery B. Kudryavtsev,Ivo G.

Rosenberg,2006-01-18 Several of the contributions to this volume bring forward many mutually beneficial interactions and connections between the three domains of the title Developing them was the main purpose of the NATO ASI summerschool held in Montreal in 2003 Although some connections for example between semigroups and automata were known for a long time developing them and surveying them in one volume is novel and hopefully stimulating for the future Another aspect is the emphasis on the structural theory of automata that studies ways to construct big automata from small ones The volume also has contributions on top current research or surveys in the three domains One contribution even links clones of universal algebra with the computational complexity of computer science Three contributions introduce the reader to research in the former East block Formal Techniques for Networked and Distributed Systems - FORTE 2008 Kenji Suzuki,Teruo Higashino,Keiichi Yasumoto,Khaled El-Fakih,2008-06-01 This volume contains the proceedings of FORTE 2008 28th IFIP WG6 1 ternational Conference on Formal Techniques for Networked and Distributed Systems FORTE 2008 was held at the Campus Innovation Center in Tokyo Japan during June 10 13 2008 FORTE denotes a series of international working conferences on formal description techniques applied to computer networks and distributed systems The conference series started in 1981 under the name PSTV In 1988 a second series under the name FORTE was set up Both series were united to FORTE PSTV in 1996 In 2001 the conference changed the name to its current form Recent conferences of this long series were held in Berlin 2003 Madrid 2004 Taipei 2005 Paris 2006 and Tallinn 2007 As in the previous year FORTE 2008 was collocated with TESTCOM FATES 2008 the 20th IFIP International Conference on Testing of Communicating Systems TESTCOM and the 8th International Workshop on Formal Approaches to Testing of Software FATES The collocation of FORTE and TESTCOM FATES fostered the collaboration between their communities The common spirit of both conferences was underpinned by joint opening and closing sessions invited talks as well as joint social events Process Algebra for Parallel and Distributed Processing Michael Alexander,William Gardner,2008-12-22 Collects the Latest Research Involving the Application of Process Algebra to Computing Exploring state of the art applications Process Algebra for Parallel and Distributed Processing shows how one formal method of reasoning process algebra has become a powerful tool for solving design and implementation challenges of concurrent systems Parallel Pr **Semantics of Probabilistic Processes** Yuxin Deng,2015-02-06 This book discusses the semantic foundations of concurrent systems with nondeterministic and

probabilistic behaviour Particular attention is given to clarifying the relationship between testing and simulation semantics and characterising bisimulations from metric logical and algorithmic perspectives Besides presenting recent research outcomes in probabilistic concurrency theory the book exemplifies the use of many mathematical techniques to solve problems in computer science which is intended to be accessible to postgraduate students in Computer Science and Mathematics It can also be used by researchers and practitioners either for advanced study or for technical reference

**Truly Concurrent Process Algebra With Localities** Yong Wang, 2024-08-20 Truly Concurrent Process Algebra with Localities introduces localities into truly concurrent process algebras The book explores all aspects of localities in truly concurrent process algebras such as Calculus for True Concurrency CTC which is a generalization of CCS for true concurrency Algebra of Parallelism for True Concurrency APTC which is a generalization of ACP for true concurrency and Calculus for True Concurrency Together these approaches capture the so called true concurrency based on truly concurrent bisimilarities such as pomset bisimilarity step bisimilarity history preserving hp bisimilarity and hereditary history preserving hhp bisimilarity This book provides readers with all aspects of algebraic theory for localities including the basis of semantics calculi for static localities axiomatization for static localities as well as calculi for dynamic localities and axiomatization for dynamic localities Introduces algebraic properties and laws for localities one of the important concepts of software engineering for concurrent computing systems Discusses algebraic theory for static localities and dynamic localities including the basis of semantics calculi and axiomatization Presents all aspects of localities in truly concurrent process algebras including Calculus for True Concurrency CTC Algebra of Parallelism for True Concurrency APTC and Process Calculus for True Concurrency



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