



# Formal model

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- Examples:
  - Lambda calculus
  - Java: FJ, FGJ, Java<sub>s</sub> (Java<sub>se</sub>), Java<sub>light</sub>, ClassicJava, ...
  - C: C<sub>ω</sub>

# Formal Models In Programming

**Maurice H. ter Beek, Annabelle  
McIver, José N. Oliveira**



## **Formal Models In Programming:**

Formal Models in Programming Gerhard Chroust, Erich J. Neuhold, 1985      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      **Theories of Programming and Formal Methods** Zhiming Liu, Jim Woodcock, Huibiao Zhu, 2013-07-24 This Festschrift volume dedicated to He Jifeng on the occasion of his 70th birthday in September 2013 includes 24 refereed papers by leading researchers current and former colleagues who congratulated at a celebratory symposium held in Shanghai China in the course of the 10th International Colloquium on Theoretical Aspects of Computing ICTAC 2013 The papers cover a broad spectrum of subjects from foundational and theoretical topics to programs and systems issues and to applications comprising formal methods software and systems modeling semantics laws of programming specification and verification as well as logics He Jifeng is known for his seminal work in the theories of programming and formal methods for software engineering He is particularly associated with Unifying Theories of Programming UTP the theory of data refinement and the laws of programming and the rCOS formal method for object and component system construction His book on UTP with Tony Hoare has been widely read and followed by a large number of researchers and it has been used in many postgraduate courses He was a senior researcher at Oxford during 1984 1998 and then a senior research fellow at the United Nations University International Institute for Software Technology UNU IIST in Macau during 1998 2005 He has been a professor and currently the Dean of the Institute of Software Engineering at East China Normal University Shanghai China In 2005 He Jifeng was elected as an academician to the Chinese Academy of Sciences He also received an honorary doctorate from the University of York He won a number of prestigious science and technology awards including a 2nd prize of Natural Science Award from the State Council of China a 1st prize of Natural Science Award from the Ministry of Education of China a 1st prize of Technology Innovation from the Ministry of Electronic Industry and a number awards from Shanghai government      **Formal Methods in Programming and Their Applications** Dines Bjorner, Manfred Broy, Igor V. Pottosin, 1993-10-05 This volume comprises the papers selected for presentation at the international conference on Formal Methods in Programming and Their Applications held in Akademgorodok Novosibirsk Russia June July 1993 The conference was organized by the Institute of Informatics Systems of the Siberian Division of the Russian Academy of Sciences and was the first forum organized by the Institute which was entirely dedicated to formal methods The main scientific tracks of the conference were centered around formal methods of program development and program construction The papers in the book are grouped into the following parts formal semantics methods algebraic specification methods semantic program analysis and abstract interpretation semantics of parallelism logic of programs software specification and verification transformational development and program synthesis

**Formal Models of Computation** Arthur Charles Fleck, 2001 This book provides new presentations of standard computational models that help avoid pitfalls of the conventional description methods It also includes novel approaches to some of the topics that students normally find the most challenging The presentations have evolved in response to student feedback over many years of teaching and have been well received by students The book covers the topics suggested in the ACM curriculum guidelines for the course on Theory of Computation and in the course on Foundations of Computing in the model liberal arts curriculum These are standard courses for upper level computer science majors and beginning graduate students The material in this area of computing is intellectually deep and students invariably find it challenging to master This book blends the three key ingredients for successful mastery The first is its focus on the mingling of intuition and rigor that is required to fully understand the area This is accomplished not only in the discussion and in examples but also especially in the proofs Second a number of practical applications are presented to illustrate the capacity of the theoretical techniques to contribute insights in a variety of areas such presentations greatly increase the reader's motivation to grasp the theoretical material The student's active participation is the third and final major element in the learning process and to this end an extensive collection of problems of widely differing difficulty is incorporated

**Formal Methods and Models for System Design** Rajesh Gupta, Paul Le Guernic, Sandeep Kumar Shukla, Jean-Pierre Talpin, 2004-06-30 Perhaps nothing characterizes the inherent heterogeneity in embedded systems than the ability to choose between hardware and software implementations of a given system function Indeed most embedded systems at their core represent a careful division and design of hardware and software parts of the system To do this task effectively models and methods are necessary functionality to capture application behavior needs and system implementation constraints Formal modeling can be valuable in addressing these tasks As with most engineering domains co design practice defines the state of the it seeks to add new capabilities in system conceptualization mod art though eling optimization and implementation These advances particularly those related to synthesis and verification tasks directly depend upon formal understanding of system behavior and performance measures Current practice in system modeling relies upon exploiting high level programming frameworks such as SystemC Esterel to capture design at increasingly higher levels of abstraction and attempts to reduce the system implementation task While raising the abstraction levels for design and verification tasks to be really useful these approaches must also provide for reuse adaptation of the existing intellectual property IP blocks

*Formal Models of Agents* John-Jules C. Meyer, Pierre-Yves Schobbens, 2003-07-31 This volume provides a selection of strictly refereed papers first presented during a workshop held within the context of the ESPRIT ModelAge Project in Certosa di Pertignano Italy in 1997 The 15 revised full papers presented together with an introductory survey by the volume editors were carefully reviewed for inclusion in the book The book is devoted to the interdisciplinary study of formal models of agency and intelligent agents from the points of view of artificial intelligence software engineering applied logic databases and organization theory Among

the topics addressed are various types of agents and multi agent systems cooperation communication specification verification deontic logic diagnosis and decision making

*Theories of Programming and Formal Methods* Jonathan P. Bowen, Qin Li, Qiwen Xu, 2023-09-07 This Festschrift volume dedicated to Jifeng He on the occasion of his 80th birthday includes refereed papers by leading researchers many of them current and former colleagues presented at a dedicated celebration in the Shanghai Science Hall in September 2023 Jifeng was an important researcher on the European ESPRIT ProCoS project and the Working Group on Provably Correct Systems subsequently he collaborated with Tony Hoare on Unifying Theories of Programming Jifeng returned to China in 1998 first to the United Nations University in Macau and then to the East China Normal University in Shanghai He has since founded an Artificial Intelligence research institute that focuses on the application of technology in large scale industrial software systems His scientific contributions have been recognized through his election to membership of the Chinese Academy of Sciences The first paper in the volume provides an overview of Jifeng's research contributions especially in the area of formal methods and the following two papers detail developments in UTP and rCOS refinement calculus of object systems In the next two sections of the book the editors included papers by colleagues and coauthors of Jifeng while he was at the University of Oxford and engaged with the European ProCoS project The section that follows includes papers authored by colleagues from his later research in China and Europe The final section includes a paper related to Jifeng's recent roadmap for UTP

**Formal Methods for Multicore Programming** Marco Bernardo, Einar Broch Johnsen, 2015-05-06 This book presents 5 tutorial lectures given by leading researchers at the 15th edition of the International School on Formal Methods for the Design of Computer Communication and Software Systems SFM 2015 held in Bertinoro Italy in June 2015 SFM 2015 was devoted to multicore programming and covered topics such as concurrency and coordination mechanisms architecture and memory models and type systems

**Formal Models, Languages And Applications** K G Subramanian, K Rangarajan, Madhavan Mukund, 2006-07-17 A collection of articles by leading experts in theoretical computer science this volume commemorates the 75th birthday of Professor Rani Siromoney one of the pioneers in the field in India The articles span the vast range of areas that Professor Siromoney has worked in or influenced including grammar systems picture languages and new models of computation

*Formal Methods: Foundations and Applications* Jim Davies, Leila Silva, Adenilso Simao, 2011-03-17 This book constitutes the thoroughly refereed post conference proceedings of the 13th Brazilian Symposium on Formal Methods SBMF 2010 held in Natal Brazil in November 2010 The 18 revised full papers were carefully reviewed and selected from 55 submissions The papers presented cover a broad range of foundational and methodological issues in formal methods for the design and analysis of software and hardware systems as well as applications in various domains

Formal Methods - The Next 30 Years Maurice H. ter Beek, Annabelle McIver, José N. Oliveira, 2019-09-23 This book constitutes the refereed proceedings of the 23rd Symposium on Formal Methods FM 2019 held in Porto Portugal in the form of the Third World

Congress on Formal Methods in October 2019 The 44 full papers presented together with 3 invited presentations were carefully reviewed and selected from 129 submissions The papers are organized in topical sections named Invited Presentations Verification Synthesis Techniques Concurrency Model Checking Circus Model Checking Analysis Techniques Specification Languages Reasoning Techniques Modelling Languages Learning Based Techniques and Applications Refactoring and Reprogramming I Day Presentations

**Development of Automatic Program Verification for Continuous Function Chart Based on Model Checking** Awang Noor Indra Wardana,2009 **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

**Formal Models of Operating System Kernels** Iain D. Craig,2007-03-06 Operating systems kernels are central to the functioning of computers Security of the overall system as well as its reliability and responsiveness depend upon the correct functioning of the kernel This unique approach presenting a formal specification of a kernel starts with basic constructs and develops a set of kernels proofs are included as part of the text

**Formal Aspects of Component Software** José Proença,Markus Lumpe,2017-09-20 This book constitutes the thoroughly revised selected papers from the 14th International Conference on Formal Aspects of Component Software FACS 2017 held in Braga Portugal in October 2017

The 14 full papers presented were carefully reviewed and selected from 26 submissions FACS 2016 is concerned with how formal methods can be used to make component based and service oriented software development succeed Formal methods have provided a foundation for component based software by successfully addressing challenging issues such as mathematical models for components composition and adaptation or rigorous approaches to verification deployment testing and certification

**Embedded Systems Design Based on Formal Models of Computation** Ivan Radojevic,Zoran Salcic,2011-06-15 Models of Computation for Heterogeneous Embedded Systems presents a model of computation for heterogeneous embedded systems called DFCharts It targets heterogeneous systems by combining finite state machines FSM with synchronous dataflow graphs SDFG FSMs are connected in the same way as in Argos a Statecharts variant with purely synchronous semantics using three operators synchronous parallel refinement and hiding The fourth operator called asynchronous parallel is introduced in DFCharts to connect FSMs with SDFGs In the formal semantics of DFCharts the operation of an SDFG is represented as an FSM Using this representation SDFGs are merged with FSMs so that the behaviour of a complete DFCharts specification can be expressed as a single flat FSM This allows system properties to be verified globally The practical application of DFCharts has been demonstrated by linking it to widely used system level languages Java Esterel and SystemC

**OpenMP Shared Memory Parallel Programming** Matthias S. Müller,2008-05-21 This book constitutes the thoroughly refereed post workshop proceedings of the First and the Second International Workshop on OpenMP IWOMP 2005 and IWOMP 2006 held in Eugene OR USA and in Reims France in June 2005 and 2006 respectively The first part of the book presents 16 revised full papers carefully reviewed and selected from the IWOMP 2005 program and organized in topical sections on performance tools compiler technology run time environment applications as well as the OpenMP language and its evaluation In the second part there are 19 papers of IWOMP 2006 fully revised and grouped thematically in sections on advanced performance tuning aspects of code development applications and proposed extensions to OpenMP

**Formal Models in Programming** Erich J. Neuhold,Gerhard Chroust,1985 Formal Modeling and Analysis of Timed Systems Joel Ouaknine,Frits W. Vaandrager,2009-09-03 This book constitutes the refereed proceedings of the 7th International Conference on Formal Modeling and Analysis of Timed Systems FORMATS 2009 held in Budapest Hungary September 2009 The 18 revised full papers presented together with 4 invited talks were carefully reviewed and selected from 40 submissions The aim of FORMATS is to promote the study of fundamental and practical aspects of timed systems and to bring together researchers from different disciplines that share interests in the modelling and analysis of timed systems Typical topics include but are not limited to Foundations and Semantics Theoretical foundations of timed systems and languages comparison between different models timed automata timed Petri nets hybrid automata timed process algebra max plus algebra probabilistic models Methods and Tools Techniques algorithms data structures and software tools for analyzing timed systems and resolving temporal constraints scheduling worst case execution time analysis

optimization model checking testing constraint solving etc Applications Adaptation and specialization of timing technology in application domains in which timing plays an important role real time software hardware circuits and problems of scheduling in manufacturing and telecommunication



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