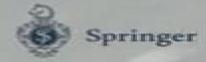


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Algebraic Foundations of Systems Specification



# **Algebraic Foundations Of Systems Specification**

**Donald Sannella, Andrzej Tarlecki** 

# **Algebraic Foundations Of Systems Specification:**

Algebraic Foundations of Systems Specification Egidio Astesiano, Hans-Jörg Kreowski, Bernd Krieg-Brückner, 2012-12-06 The aim of software engineering is the provision and investigation of methods for the development of software systems of high quality with correctness as a key issue A system is called correct if it does what one wants if it meets the requirements To achieve and to guarantee correct systems the need of formal methods with rigorous semantics and the possibility of verification is widely accepted Algebraic specification is a software engineering approach of this perspective When Liskov and Zilles Guttag and the ADJ group with Goguen Thatch er Wagner and Wright introduced the basic ideas of algebraic specification in the mid seventies in the U S A and Canada they initiated a very successful and still flourishing new area In the late seventies algebraic specification became a major research topic also in many European countries Originally the algebraic framework was intended for the mathematical foundation of ab stract data types and the formal development of first order applicative pro grams Meanwhile the range of applications has been extended to the precise specification of complete software systems the uniform definition of syntax and semantics of programming languages and to the stepwise development of correct systems from the requirement definitions to the running programs The activities in the last 25 years have led to an abundance of concepts methods approaches theories languages and tools which are mathemati cally founded in universal algebra category theory and logic **Algebraic Foundations of Sysstems Specification** E. Astesino, H. J. Kreowski, B. Krieg-Bruckner, 1999 The aim of software engineering is the provision and investigation of methods for the development of software systems of high quality with correctness as a key issue A system is called correct if it does what one wants if it meets the requirements To achieve and to guarantee correct systems the need of formal methods with rigorous semantics and the possibility of verification is widely accepted Algebraic specification is a software engineering approach of this perspective When Liskov and Zilles Guttag and the ADJ group with Goguen Thatch er Wagner and Wright introduced the basic ideas of algebraic specification in the mid seventies in the U S A and Canada they initiated a very successful and still flourishing new area In the late seventies algebraic specification became a major research topic also in many European countries Originally the algebraic framework was intended for the mathematical foundation of ab stract data types and the formal development of first order applicative pro grams Meanwhile the range of applications has been extended to the precise specification of complete software systems the uniform definition of syntax and semantics of programming languages and to the stepwise development of correct systems from the requirement definitions to the running programs The activities in the last 25 years have led to an abundance of concepts methods approaches theories languages and tools which are mathematically founded in universal algebra category theory and logic Foundations of Algebraic Specification and Formal Software Development Donald Sannella, Andrzej Tarlecki, 2012-01-05 This book provides foundations for software specification and formal software development from the perspective of work on algebraic

specification concentrating on developing basic concepts and studying their fundamental properties. These foundations are built on a solid mathematical basis using elements of universal algebra category theory and logic and this mathematical toolbox provides a convenient language for precisely formulating the concepts involved in software specification and development Once formally defined these notions become subject to mathematical investigation and this interplay between mathematics and software engineering yields results that are mathematically interesting conceptually revealing and practically useful The theory presented by the authors has its origins in work on algebraic specifications that started in the early 1970s and their treatment is comprehensive This book contains five kinds of material the requisite mathematical foundations traditional algebraic specifications elements of the theory of institutions formal specification and development and proof methods While the book is self contained mathematical maturity and familiarity with the problems of software engineering is required and in the examples that directly relate to programming the authors assume acquaintance with the concepts of functional programming The book will be of value to researchers and advanced graduate students in the areas of programming and theoretical computer science **Algebraic Informatics** Franz Winkler, 2011-06-16 This book constitutes the refereed proceedings of the 4th International Conference on Algebraic Informatics CAI 2011 held in Linz Austria in June 2011 The 12 revised full papers presented together with 4 invited articles were carefully reviewed and selected from numerous submissions. The papers cover topics such as algebraic semantics on graph and trees formal power series syntactic objects algebraic picture processing finite and infinite computations acceptors and transducers for strings trees graphs arrays etc decision problems algebraic characterization of logical theories process algebra algebraic algorithms algebraic coding theory and algebraic aspects of cryptography Recent Trends in Algebraic Development Techniques Francesco Parisi-Presicce, 1998-03-11 Spine title WADT 97 **Mechanizing Mathematical Reasoning** Dieter Hutter, 2005-02-23 By presenting state of the art results in logical reasoning and formal methods in the context of artificial intelligence and AI applications this book commemorates the 60th birthday of I rg H Siekmann The 30 revised reviewed papers are written by former and current students and colleagues of J rg Siekmann also included is an appraisal of the scientific career of J rg Siekmann entitled A Portrait of a Scientist Logics AI and Politics The papers are organized in four parts on logic and deduction applications of logic formal methods and security and agents and planning **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 f r Informatik of Humboldt Universit t 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 **Perspectives of System Informatics** Dines Bjørner, Manfred Broy, Alexandre V. Zamulin, 2003-06-26 This book constitutes the thoroughly refereed post proceedings of the Third International Andrei Ershov Memorial Conference PSI 99 held in Akademgorodok Novosibirsk Russia in July 1999 The 44 revised papers presented together with five revised full invited papers were carefully reviewed and selected from a total of 73 submissions. The papers are organized in sections on algebraic specifications partial evaluation and super compilation specification with states concurrency and parallelism logic and processes languages and software database programming object oriented programming constraint programming model checking and program checking and artificial intelligence Alaebraic Methodology and Software Technology Michael Johnson, 1997-12 This book constitutes the refereed proceedings of the 6th International Conference on Algebraic Methodology and Software Engineering AMAST 97 held in Sydney Australia in December 1997 The volume presents 48 revised full papers selected from an unusually high number of submissions One of the outstanding features of AMAST is its mix of serious mathematical development of formal methods in software engineering with practical concerns tools case studies and industrial development The volume addresses all current aspects of formal methods in software engineering and programming methodology with a certain emphasis on algebraic and logical foundations Models, Algebras and Logic of Engineering Software Manfred Broy, Markus Pizka, 2003 This volume focuses on the education of researchers teachers students and practitioners As usual in engineering a study and application of the relevant branches of mathematics is crucial both in education and practice Challenges of Human Space

Exploration Marsha Freeman, 2000-06-14 This non technical and well illustrated book tells the story of what was accomplished during the Shuttle Mir programme by three of the astronauts Based on interviews granted to the author by the astronauts the book describes the experiments they took and the lessons they learned In doing so it provides a unique insight into how adversity and challenges can be overcome in the process of exploration making it ideally suited to those planning space missions of a long duration Amongst the topics covered are growing food in space curing disease with space crystals and lessons learned form Mir It also contains interviews with managers of the space programme at the Johnson Space Centre and scientists involved in the experiments FM'99 - Formal Methods Jeannette M. Wing, Jim Woodcook, Jim Davies, 2003-07-31 Formal methods are coming of age Mathematical techniques and tools are now regarded as an important part of the development process in a wide range of industrial and governmental organisations A transfer of technology into the mainstream of systems development is slowly but surely taking place FM 99 the First World Congress on Formal Methods in the Development of Computing Systems is a result and a measure of this new found maturity It brings an impressive array of industrial and applications oriented papers that show how formal methods have been used to tackle real problems These proceedings are a record of the technical symposium of FM 99 alo side the papers describing applications of formal methods youwill ndtechnical reports papers and abstracts detailing new advances in formal techniques from mathematical foundations to practical tools The World Congress is the successor to the four Formal Methods Europe Symposia which in turn succeeded the four VDM Europe Symposia This s cession re ects an increasing openness within the international community of researchers and practitioners papers were submitted covering a wide variety of formal methods and application areas The programmecommittee re ects the Congress s international nature with a membership of 84 leading researchersfrom 38 di erent countries The comm tee was divided into 19 tracks each with its own chair to oversee the reviewing process Our **Recent Trends in** collective task was a di cult one there were 259 high quality s missions from 35 di erent countries **Algebraic Development Techniques** Jose L. Fiadeiro, 2003-07-31 The European conference situation in the general area of software science has longbeen considered unsatisfactory A fairlylarge number of small and medi sized conferences and workshops take place on an irregular basis competing for high quality contributions and for enough attendees to make them nancially viable Discussions aiming at a consolidation have been underway since at least 1992 with concrete planning beginning in summer 1994 and culminating in a public meeting at TAPSOFT 95 in Aarhus On the basis of a broad consensus it was decided to establish a single annual federated spring conference in the slot that was then occupied by TAPSOFT and CAAP ESOP CC comprising a number of existing and new conferences and covering a spectrum from theory to practice ETAPS 98 the rst instance of the European Joint Conferences on Theory and Practice of Software is taking place this year in Lisbon It comprises ve conferences FoSSaCS FASE ESOP CC TACAS four workshops ACoS VISUAL WADT CMCS seven invited lectures and nine tutorials Automata, Languages and Programming Fernando Orejas, Paul G. Spirakis, Jan van

Leeuwen, 2003-05-15 This book constitutes the refereed proceedings of the 28th International Colloquium on Automata Languages and Programming ICALP 2001 held in Crete Greece in July 2001 four invited papers were carefully reviewed and selected from a total of 208 submissions complexity algorithm analysis approximation and optimization complexity concurrency efficient data structures graph algorithms language theory codes and automata model checking and protocol analysis networks and routing reasoning and verification scheduling secure computation specification and deduction and Medical Image Computing and Computer-Assisted Intervention - MICCAI 2001[Wiro J. structural complexity Niessen, 2001-10-02 This book constitutes the refereed proceedings of the 4th International Conference on Medical Image Computing and Computer Assisted Intervention MICCAI 2001 held in Utrecht The Netherlands in October 2001 The 122 revised papers and 136 posters presented were carefully reviewed and selected from a total of 338 submissions The book offers topical sections on image guided surgery shape analysis segmentation computer aided diagnosis registration simulation planning and modeling visualization quantitative image analysis medical robotics and devices visualization and Formal Methods in Software and Systems Modeling Hans-Jörg augmented reality and time series analysis Kreowski, Ugo Montanari, Fernando Orejas, Grzegorz Rozenberg, Gabriele Taentzer, 2005-02-09 By presenting state of the art research results on various aspects of formal and visual modeling of software and systems this book commemorates the 60th birthday of Hartmut Ehrig The 24 invited reviewed papers are written by students and collaborators of Hartmut Ehrig who are established researchers in their fields Reflecting the scientific interest and work of Hartmut Ehrig the papers fall into three main parts on graph transformation algebraic specification and logic and formal and visual modeling **Formal Methods** Wolfgang Grieskamp, Thomas Santen, Bill Stoddart, 2000 This book constitutes the refereed proceedings of the Second International Conference on Integrated Formal Methods IFM 2000 held in Dagstuhl Germany in November 2000 The 22 revised full papers presented together with the abstracts of two invited talks were carefully reviewed and selected from 58 submissions. The papers are grouped together in topical sections on linking and extending notations methodology foundation of one formalism by another semantics and verification and validation **UML 2000 - The Unified Modeling** Language: Advancing the Standard Andy Evans, Stuart Kent, Bran Selic, 2003-06-29 This book constitutes the refereed proceedings of the Third International Conference on the Unified Modeling Language 2000 held in York UK in October 2000 The 36 revised full papers presented together with two invited papers and three panel outlines were carefully reviewed and selected from 102 abstracts and 82 papers submitted The book offers topical sections on use cases enterprise applications applications roles OCL tools meta modeling behavioral modeling methodology actions and constraints patterns architecture and state charts Semantic Integration of Heterogeneous Software Specifications Martin Große-Rhode, 2013-03-09 In a model based development of software systems different views on a system are elaborated using appropriate modeling languages and techniques Because of the unavoidable heterogeneity of the viewpoint models a semantic integration is

required to establish the correspondences of the models and allow checking of their relative consistency. The integration approach introduced in this book is based on a common semantic domain of abstract systems their composition and development. Its applicability is shown through semantic interpretations and compositional comparisons of different specification approaches. These range from formal specification techniques like process calculi Petri nets and rule based formalisms to semiformal software modeling languages like those in the UML family Fundamental Approaches to Software Engineering Mauro Pezzè, 2003-07-01. This book constitutes the refereed proceedings of the 6th International Conference on Fundamental Approaches to Software Engineering FASE 2003 held in Warsaw Poland in April 2003. The 20 revised full papers presented together with a keynote paper were carefully reviewed and selected from 89 submissions. The papers are organized in topical sections on software components mobile computing aspects and web applications software measurements formal verficiation analysis and testing and model integration and extension

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