Martin Große-Rhode

Semantic Integration of Heterogeneous Software Specifications

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Gabriele Taentzer,Francis Bordeleau

Semantic Integration Of Heterogeneous Software Specifications:

Semantic Integration of Heterogeneous Software Specifications Martin Große-Rhode,2003-12-09 The first book to integrate various model based software specification approaches The integration approach 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

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 **Integration of Software Specification Techniques for Applications in Engineering** Hartmut Ehrig,Werner Damm,Jörg Desel,Martin Große-Rhode,Wolfgang Reif,Eckehard Schnieder,Engelbert Westkämper,2011-04-05 This book constitutes the documentation of the scientific outcome of the priority program Integration of Software Specification Techniques for Applications in Engineering sponsored by the German Research Foundation DFG It includes main contributions of the projects of the priority program and of additional international experts in the field Some of the papers included were presented at the related Third International Workshop on the topic INT 2004 held in Barcelona Spain in March 2004 The 25 revised full papers presented together with 6 section introductions by the volume editors were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on reference case study production automation reference case study traffic control systems petri nets and related approaches in engineering charts verification and integration modeling *Fundamental Approaches to Software Engineering* Alexander Egyed,Ina Schaefer,2015-03-31 This book constitutes the proceedings of the 18th International Conference on Fundamental Approaches to Software Engineering FASE 2015 held in London UK in April 2015 as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2015 The 22 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 80 submissions They are organized in topical sections named models and synthesis testing and fault localization modeling verification modeling and adaptation and applications *Graph Transformation, Specifications, and Nets* Reiko Heckel,Gabriele Taentzer,2018-02-06 This volume pays tribute to the scientific achievements of Hartmut Ehrig who passed away in March 2016 The contributions represent a selection from a

symposium held in October 2016 at TU Berlin commemorating Hartmut s life and work as well as other invited papers in the areas he was active in These areas include Graph Transformation Model Transformation Concurrency Theory in particular Petri Nets Algebraic Specification and Category Theory in Computer Science *Software Engineering 2* Dines Bjørner,2007-08-01 The art craft discipline logic practice and science of developing large scale software products needs a professional base The textbooks in this three volume set combine informal engineeringly sound approaches with the rigor of formal mathematics based approaches This volume covers the basic principles and techniques of specifying systems and languages It deals with modelling the semiotics pragmatics semantics and syntax of systems and languages modelling spatial and simple temporal phenomena and such specialized topics as modularity incl UML class diagrams Petri nets live sequence charts statecharts and temporal logics including the duration calculus Finally the book presents techniques for interpreter and compiler development of functional imperative modular and parallel programming languages This book is targeted at late undergraduate to early graduate university students and researchers of programming methodologies Vol 1 of this series is a prerequisite text *Mathematics in Berlin* Heinrich Begehr,Helmut Koch,Jürg Kramer,Norbert Schappacher,Ernst-Jochen Thiele,1998-07-21 This little book is conceived as a service to mathematicians attending the 1998 International Congress of Mathematicians in Berlin It presents a comprehensive condensed overview of mathematical activity in Berlin from Leibniz almost to the present day without however including biographies of living mathematicians Since many towering figures in mathematical history worked in Berlin most of the chapters of this book are concise biographies These are held together by a few survey articles presenting the overall development of entire periods of scientific life at Berlin Overlaps between various chapters and differences in style between the chap ters were inevitable but sometimes this provided opportunities to show different aspects of a single historical event for instance the Kronecker Weierstrass con troversy The book aims at readability rather than scholarly completeness There are no footnotes only references to the individual bibliographies of each chapter Still we do hope that the texts brought together here and written by the various authors for this volume constitute a solid introduction to the history of Berlin mathematics **Agent and Multi-Agent Systems: Technologies and Applications** Gordan Jezic,Mario Kusek,Ngoc Thanh Nguyen,Robert J. Howlett,Lakhmi C. Jain,2012-06-16 This book constitutes the refereed proceedings of the 6th KES International Conference on Agent and Multi Agent Systems KES AMSTA 2012 held in Dubrovnik Croatia in June 2012 The conference attracted a substantial number of researchers and practitioners from all over the world who submitted their papers for ten main tracks covering the methodology and applications of agent and multi agent systems one workshop TRUMAS 2012 and five special sessions on specific topics within the field The 66 revised papers presented were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on virtual organizations knowledge and learning agents intelligent workflow cloud computing and intelligent systems self organization ICT based alternative and augmentative communication

multi agent systems mental and holonic models assessment methodologies in multi agent and other paradigms business processing agents Trumas 2012 first international workshop conversational agents and agent teams digital economy and multi agent systems in distributed environments **Finite Model Theory and Its Applications** Erich Grädel,Phokion G. Kolaitis,Leonid Libkin,Maarten Marx,Joel Spencer,Moshe Y. Vardi,Yde Venema,Scott Weinstein,2007-04-24 Finite model theory as understoodhere is an areaof mathematicallogic that has developed in close connection with applications to computer science in particular the theory of computational complexity and database theory One of the fundamental insights of mathematical logic is that our understanding of mathematical phenomena is enriched by elevating the languages we use to describe mathematical structures to objects of explicit study If mathematics is the science of patterns then the media through which we discern patterns as well as the structures in which we discern them command our attention It isthis aspect oflogicwhichis mostprominentin model theory thebranchof mathematical logic which deals with the relation between a formal language and its interpretations No wonder then that mathematical logic and nite model theory in particular should nd manifold applications in computer science from specifying programs to querying databases computer science is rife with phenomena whose understanding requires close attention to the interaction between language and structure This volume gives a broadoverviewof some central themes of nite model theory expressive power descriptive complexity and zero one laws together with selected applications to database theory and arti cial intelligence es cially constraint databases and constraint satisfaction problems The nal chapter provides a concise modern introduction to modal logic which emp sizes the continuity in spirit and technique with nite model theory **On the Move to Meaningful Internet Systems: OTM 2010** Robert Meersman,Tharam Dillon,Pilar Herrero,2010-10-29 This volume constitutes the refereed proceedings of 11 international workshops held as part of OTM 2010 in Hersonissos Greece in October 2010 The 68 revised full papers presented were carefully reviewed and selected from a total of 127 submissions to the workshops The volume starts with 14 poster papers of the OTM 2010 main conferences COOPIS 2010 DOA 2010 and OSBASE 2010 Topics of the workshop papers are adaption in service oriented architectures ambient intelligence and reasoning data integration approaches modeling in ADI web and enterprise data visualization enterprise integration and semantics industrial enterprise interoperability and networking process management in distributed information system development improving social networking ontology engineering master data management and metamodeling extensions to fact oriented modeling logic and derivation patterns in input data models **Elements of Finite Model Theory** Leonid Libkin,2013-03-09 Finite model theory is an area of mathematical logic that grew out of computer science applications The main sources of motivational examples for finite model theory are found in database theory computational complexity and formal languages although in recent years connections with other areas such as formal methods and verification and artificial intelligence have been discovered The birth of finite model theory is often identified with Trakhtenbrot s result from 1950 stating that validity over finite models is

not recursively enumerable in other words completeness fails over finite models The tech nique of the proof based on encoding Turing machine computations as finite structures was reused by Fagin almost a quarter century later to prove his cel ebrated result that put the equality sign between the class NP and existential second order logic thereby providing a machine independent characterization of an important complexity class In 1982 Immerman and Vardi showed that over ordered structures a fixed point extension of first order logic captures the complexity class PTIME of polynomial time computable propertiE s Shortly thereafter logical characterizations of other important complexity classes were obtained This line of work is often referred to as descriptive complexity A different line of finite model theory research is associated with the de velopment of relational databases By the late 1970s the relational database model had replaced others and all the basic query languages for it were es sentially first order predicate calculus or its minor extensions **Service Orientation in Holonic and Multi Agent Manufacturing and Robotics** Theodor Borangiu,Andre Thomas,Damien Trentesaux,2013-02-15 The book covers four research domains representing a trend for modern manufacturing control Holonic and Multi agent technologies for industrial systems Intelligent Product and Product driven Automation Service Orientation of Enterprise s strategic and technical processes and Distributed Intelligent Automation Systems These evolution lines have in common concepts related to service orientation derived from the Service Oriented Architecture SOA paradigm The service oriented multi agent systems approach discussed in the book is characterized by the use of a set of distributed autonomous and cooperative agents embedded in smart components that use the SOA principles being oriented by offer and request of services in order to fulfil production systems and value chain goals A new integrated vision combining emergent technologies is offered to create control structures with distributed intelligence supporting the vertical and horizontal enterprise integration and running in truly distributed and global working environments The service value creation model at enterprise level consists into using Service Component Architectures for business process applications based on entities which handle services In this componentization view a service is a piece of software encapsulating the business control logic or resource functionality of an entity that exhibits an individual competence and responds to a specific request to fulfil a local product or global batch objective The service value creation model at enterprise level consists into using Service Component Architectures for business process applications based on entities which handle services In this componentization view a service is a piece of software encapsulating the business control logic or resource functionality of an entity that exhibits an individual competence and responds to a specific request to fulfil a local product or global batch objective *Modelling Foundations and Applications* Gabriele Taentzer,Francis Bordeleau,2015-07-16 This book constitutes the proceedings of the 11th European Conference on Modelling Foundations and Applications ECMFA 2015 held as part of STAF 2015 in L Aquila Utaly in July 2015 The 13 papers presented in this volume were carefully reviewed and selected from 54 submissions The committee decided to accept 13 papers 9 papers for the Foundations Track and 4 papers for the Applications Track Papers

on a wide range of MBE aspects were accepted including topics such as aspect oriented modeling model management model transformation advanced meta modeling UML modeling tools and domain specific modeling w r t energy consumption and cloud based systems   Modelling Distributed Systems Wan Fokkink,2007-09-05 This textbook guides students through algebraic specification and verification of distributed systems and some of the most prominent formal verification techniques The author employs CRL as the vehicle a language developed to combine process algebra and abstract data types The book evolved from introductory courses on protocol verification taught to undergraduate and graduate students of computer science and the text is supported throughout with examples and exercises Full solutions are provided in an appendix while exercise sheets lab exercises example specifications and lecturer slides are available on the author s website   *Interactive Theorem Proving and Program Development* Yves Bertot,Pierre Castéran,2013-03-14 Coq is an interactive proof assistant for the development of mathematical theories and formally certified software It is based on a theory called the calculus of inductive constructions a variant of type theory This book provides a pragmatic introduction to the development of proofs and certified programs using Coq With its large collection of examples and exercises it is an invaluable tool for researchers students and engineers interested in formal methods and the development of zero fault software   *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 structural complexity   **The Road for SEEM. A Reference Framework Towards a Single European Electronic Market** Ricardo Goncalves,Flavio Bonfatti,2008-09-02 Become the most competitive and dynamic knowledge based economy in the world by 2010 is the major objective of the Lisbon strategy for the European Community The European Commission re launched the Lisbon strategy in a new initiative called i2010 a European Information Society for growth and employment to promote a Single European Information

Complexity Theory and Cryptology Jörg Rothe,2005-11-10 Modern cryptology increasingly employs mathematically rigorous concepts and methods from complexity theory Conversely current research topics in complexity theory are often motivated by questions and problems from cryptology This book takes account of this situation and therefore its subject is what may be dubbed cryptocomplexity a kind of symbiosis of these two areas This book is written for undergraduate and graduate students of computer science mathematics and engineering and can be used for courses on complexity theory and cryptology preferably by stressing their interrelation Moreover it may serve as a valuable source for researchers teachers and practitioners working in these fields Starting from scratch it works its way to the frontiers of current research in these

fields and provides a detailed overview of their history and their current research topics and challenges

Restricted-Orientation Convexity Eugene Fink,Derick Wood,2012-12-06 Restricted orientation convexity is the study of geometric objects whose intersections with lines from some fixed set are connected This notion generalizes standard convexity and several types of nontraditional convexity We explore the properties of this generalized convexity in multidimensional Euclidean space describes restricted orientation analogs of lines hyperplanes flats and halfspaces and identify major properties of standard convex sets that also hold for restricted orientation convexity We then introduce the notion of strong restricted orientation convexity which is an alternative generalization of convexity and show that its properties are also similar to those of standard convexity **Parameterized Complexity Theory** J. Flum,M. Grohe,2006-05-01 Parameterized complexity theory is a recent branch of computational complexity theory that provides a framework for a refined analysis of hard algorithmic problems The central notion of the theory fixed parameter tractability has led to the development of various new algorithmic techniques and a whole new theory of intractability This book is a state of the art introduction to both algorithmic techniques for fixed parameter tractability and the structural theory of parameterized complexity classes and it presents detailed proofs of recent advanced results that have not appeared in book form before Several chapters are each devoted to intractability algorithmic techniques for designing fixed parameter tractable algorithms and bounded fixed parameter tractability and subexponential time complexity The treatment is comprehensive and the reader is supported with exercises notes a detailed index and some background on complexity theory and logic The book will be of interest to computer scientists mathematicians and graduate students engaged with algorithms and problem complexity

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Table of Contents Semantic Integration Of Heterogeneous Software Specifications

6. Navigating Semantic Integration Of Heterogeneous Software Specifications eBook Formats
   - ePub, PDF, MOBI, and More
   - Semantic Integration Of Heterogeneous Software Specifications Compatibility with Devices
   - Semantic Integration Of Heterogeneous Software Specifications Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Semantic Integration Of Heterogeneous Software Specifications
   - Highlighting and Note-Taking Semantic Integration Of Heterogeneous Software Specifications
   - Interactive Elements Semantic Integration Of Heterogeneous Software Specifications
8. Staying Engaged with Semantic Integration Of Heterogeneous Software Specifications
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Semantic Integration Of Heterogeneous Software Specifications
9. Balancing eBooks and Physical Books Semantic Integration Of Heterogeneous Software Specifications
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Semantic Integration Of Heterogeneous Software Specifications
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Semantic Integration Of Heterogeneous Software Specifications
    - Setting Reading Goals Semantic Integration Of Heterogeneous Software Specifications
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Semantic Integration Of Heterogeneous Software Specifications
    - Fact-Checking eBook Content of Semantic Integration Of Heterogeneous Software Specifications
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements

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