

Tutorial

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International Summer School and Workshop
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Revised Lectures

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account of the potential of formal methods applied to large and complex software systems such as component based systems and object systems The book provides an unique combination of ideas on software engineering and formal methods that reflect the expanding body of knowledge on modern software systems Programming Languages and Systems Kazunori Ueda,2010-11-19 The 23 papers presented together with 4 invited papers 2 system and tool presentations and 1 tutorial lecture were carefully reviewed and selected from 95 initial submissions The papers are devoted to both foundational and practical issues in programming languages and systems and feature current research in the following areas semantics logics foundational theory design of languages and foundational calculi type systems compilers interpreters abstract machines program derivation analysis transformation software security safety verification concurrency constraints domain specific languages as well as tools for programming verification and implementation **Algebra, Meaning, and Computation** Kokichi Futatsugi,Jean-Pierre Jouannaud,José Meseguer,2006-06-21 This volume honoring the computer science pioneer Joseph Goguen on his 65th Birthday includes 32 refereed papers by leading researchers in areas spanned by Goguen s work The papers address a variety of topics from meaning meta logic specification and composition behavior and formal languages as well as models deduction and computation by key members of the research community in computer science and other fields connected with Joseph Goguen s work Mathematics of Program Construction ,2004 **Algebraic Calculi for Hybrid Systems** Peter Höfner,2009 Mathematical Reviews ,2004 Handbook of Modal Logic Patrick Blackburn,Johan F.A.K. van Benthem, Frank Wolter,2006-11-03 The Handbook of Modal Logic contains 20 articles which collectively introduce contemporary modal logic survey current research and indicate the way in which the field is developing The articles survey the field from a wide variety of perspectives the underling theory is explored in depth modern computational approaches are treated and six major applications areas of modal logic in Mathematics Computer Science Artificial Intelligence Linguistics Game Theory and Philosophy are surveyed The book contains both well written expository articles suitable for beginners approaching the subject for the first time and advanced articles which will help those already familiar with the field to deepen their expertise Please visit http://people.uleth.ca/woods/RedSeriesPromo_WP_PubSLPR.html Compact modal logic reference Computational approaches fully discussed Contemporary applications of modal logic covered in depth

Language Engineering and Rigorous Software Development Ana Bove,Luis Soares Barbosa,Alberto Pardo,Jorge Sousa Pinto,2009-07-27 This book offers three lectures on type theory from the 2008 International LerNet ALFA Summer School on Language Engineering and Rigorous Software Development an introductory tutorial an introduction to dependent types and one on type based termination **Advancing Research in Information and Communication Technology** Michael Goedicke,Erich Neuhold,Kai Rannenber,2021-08-03 For 60 years the International Federation for Information Processing IFIP has been advancing research in Information and Communication Technology ICT This book looks into both past experiences and future perspectives using the core of IFIP s competence its Technical Committees TCs and Working Groups

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Mathematical Frameworks for Component Software Zhiming Liu,Jifeng He,2006 The range of components technology is both wide and diverse but some common understanding is emerging through the ideas of model based development These include the notions of interfaces contracts services connectors and architectures Key issues in the application of the technology are becoming clearer including the consistent integration of different views of a component component composition component coordination and transformation for platforms However we still know little about theories that support analysis and synthesis of component based systems The distinct feature of this volume is its focus on mathematical models that identify the core concepts as first class modeling elements and its providing of techniques for integrating and relating them The volume contains eleven chapters by well established researchers writing from different perspectives Each chapter gives explicit definitions of components in terms of a set of key aspects and addresses some of the problems of integration and analysis of various views component specification component composition component coordination refinement and substitution and techniques for solving problems The concepts and techniques are motivated and explained with the help of examples and case studies **Automata, Languages and Programming** ,2002 *Samson Abramsky on Logic and Structure in Computer Science and Beyond* Alessandra Palmigiano,Mehrnoosh Sadrzadeh,2023-08-01 Samson Abramsky s wide ranging contributions to logical and structural aspects of Computer Science have had a major influence on the field This book is a rich collection of papers inspired by and extending Abramsky s work It contains both survey material

and new results organised around six major themes domains and duality game semantics contextuality and quantum computation comonads and descriptive complexity categorical and logical semantics and probabilistic computation These relate to different stages and aspects of Abramsky s work reflecting its exceptionally broad scope and his ability to illuminate and unify diverse topics Chapters in the volume include a review of his entire body of work spanning from philosophical aspects to logic programming language theory quantum theory economics and psychology and relating it to a theory of unification of sciences using dual adjunctions The section on game semantics shows how Abramsky s work has led to a powerful new paradigm for the semantics of computation The work on contextuality and categorical quantum mechanics has been highly influential and provides the foundation for increasingly widely used methods in quantum computing The work on comonads and descriptive complexity is building bridges between currently disjoint research areas in computer science relating Structure to Power The volume also includes a scientific autobiography and an overview of the contributions The outstanding set of contributors to this volume including both senior and early career academics serve as testament to Samson Abramsky s enduring influence It will provide an invaluable and unique resource for both students and established researchers

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