Lecture Notes in Computer Science

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Wilfrid Hodges

Csl 89 Lecture Notes In Computer Science Volume 44:

Generalized Nets Krassimir T. Atanassov,1991 The Generalized Nets GNs are extensions of Petri nets and of different Petri nets modifications introduced by the author 1982 In the book definitions and the basic properties of GNs are given The GNs extensions and reductions are discussed GNs which describe the functioning and results of the work of different types of petri nets different types of finite automata and of Turing machines are given Over the GNs are defined different operations relations and operators They can also be transferred onto other nets Many open problems in the GNs theory are given

Conditional and Typed Rewriting Systems Stephane Kaplan,1991-08-07 In recent years extensions of rewriting techniques that go beyond the traditional untyped algebraic rewriting framework have been investigated and developed Among these extensions conditional and typed systems are particularly important as are higher order systems graph rewriting systems etc The international CTRS Conditional and Typed Rewriting Systems workshops are intended to offer a forum for researchers on such extensions of rewriting techniques This volume presents the proceedings of the second CTRS workshop which contributed to discussion and evaluation of new directions of research The proceedings of the first CTRS workshop are in Lecture Notes in Computer Science Vol 308 Several important directions for extensions of rewriting techniques were stressed which are reflected in the organization of the chapters in this volume Theory of conditional and Horn clause systems Infinite terms non terminating systems and termination Extension of Knuth Bendix completion Combined systems combined languages and modularity Architecture compilers and parallel computation Basic frameworks for typed and order sorted systems Extension of unification and narrowing techniques   **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 *Computer Science Logic* ,2001 **Modeling Companion for Software Practitioners** Egon Börger,Alexander Raschke,2018-03-31 This book uses a variety of applications to illustrate a modeling method that helps practitioners to manage complex software intensive systems The proposed method relies on the combination of its abstraction concept and its operational character with behavioral models in the precise and simple form of Abstract State Machines ASMs The book introduces both the modeling method Part I and the available tool support Part II In Part I the authors detail using numerous examples how to construct explain debug explore extend and reuse accurate system design models starting from scratch Only an elementary knowledge of common mathematical including set theoretic notation and some basic experience with computational processes systems programs algorithms is assumed Part II then shows how the modeling method can be supported by implementing tools that make design models executable and debuggable To illustrate how to build debug and maintain systems and to explain their construction in a checkable manner a general problem oriented refinement method is adopted to construct system models from components The method starts with abstract models and refines them step by step incrementally adding further details that eventually lead to code Intended for practitioners who build software intensive systems and students specializing in software engineering it can be used both for self study and for teaching and it can serve as a reference book Exercises are included to help readers check their understanding of the explained concepts For many models defined in the book refinements to executable versions can be downloaded for experimental validation from the book s website at http modelingbook informatik uni ulm de 　□□□□□□□□□□□ □□□□□□□□□□□ □□□□□□ (Japan),1972 Lattice-Based Cryptosystems Jiang Zhang,Zhenfeng Zhang,2020-10-14 This book focuses on lattice based cryptosystems widely considered to be one of the most promising post quantum cryptosystems and provides fundamental insights into how to construct provably secure cryptosystems from hard lattice problems The concept of provable security is used to inform the choice of lattice tool for designing cryptosystems including public key encryption identity based encryption attribute based encryption key change and digital signatures Given its depth of coverage the book especially appeals to graduate students and young researchers who plan to enter this research area 　□□□□□□□□□□□□□□□□□□ □□□□ ,1992 *Introducing String Diagrams* Ralf Hinze,Dan Marsden,2023-08-10 String diagrams are powerful graphical methods for reasoning in elementary category theory Written in an informal expository style this book provides a self contained introduction to these diagrammatic techniques ideal for graduate students and researchers Much of the book is devoted to worked examples highlighting how best to use string diagrams to solve realistic problems in elementary category theory A range of topics are explored from the perspective of string diagrams including adjunctions monad and comonads Kleisli and Eilenberg Moore categories and endofunctor algebras and coalgebras Careful attention is paid throughout to exploit the freedom of the graphical notation to draw diagrams that aid understanding and subsequent calculations Each chapter contains plentiful exercises of varying levels of difficulty suitable for self study or for use by instructors *ACM*

SIGGRAPH '89 Course Notes ,1989   *Mathematical Reviews* ,2003   *Logic Colloquium '90* Juha Oikkonen,Jouko Väänänen,2017-03-02 The proceedings of the Association for Symbolic Logic meeting held in Helsinki Finland in July 1990 containing eighteen papers written by leading researchers in logic Between them they cover all fields of mathematical logic including model theory proof theory recursion theory and set theory   **Logic** Wilfrid Hodges,1996 This book contains twenty one essays by leading authorities on aspects of contemporary logic ranging from foundations of set theory to applications of logic in computing and in the theory of fields In those parts of logic closest to computer science the gap between foundations and applications is often small as illustrated by three essays on the proof theory of non classical logics There are also chapters on the lambda calculus on relating logic programs to inductive definitions on Buechi and Presburger arithmetics and on definability in Lindenbaum algebras Aspects of constructive mathematics discussed are embeddings of Heyting algebras and proofs in mathematical anslysis Set theory is well covered with six chapters discussing Cohen forcing Baire category determinancy Nash Williams theory critical points and the remarkable connection between them and properties of left distributive operations and independent structures The longest chapter in the book is a survey of 0 minimal structures by Lou van den Dries during the last ten years these structures have come to take a central place in applications of model theory to fields and function theory and this chapter is the first broad survey of the area Other chapters illustrate how to apply model theory to field theory complex geometry and groups and how to recover from its automorphism group Finally one chapter applies to the theory of toric varieties to solve problems about many valued logics   8th IEEE Computer Security Foundations Workshop ,1995 Researchers explore fundamental issues in computer security such as access control cryptography protocols database security integrity and availability information flow and formal methods for security Among the 18 topics are classifying key agreement protocols a semantics based tool for the v   **Proceedings** ,1995   Research Topics in Functional Programming D. A. Turner,1990   Formal Verification of Hardware Design Michael Yoeli,1990   **Category Theory and Computer Science** ,1987   *Category Theory and Computer Science* David H. Pitt,Axel Poigne,David E. Rydeheard,1987-10-21   **Computer Architecture, Tutorial** Daniel D. Gajski,1987 This tutorial is intended for computer system architects designers and managers who need a broad range of knowledge on advanced topics in computer architecture The book can be used as a textbook or as a research and design reference The goal of this tutorial is to present the state of the art in advanced computer architecture Part I deals with the concepts underlying current architectures Part II covers a variety of approaches and techniques being used in the design of advanced computer systems

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