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editors

Modern Applications of Automata Theory



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Logic and Its Applications C.
Aiswarya,Prabal Kumar Sen,Shashi Mohan Srivastava,2025-05-27 This book constitutes the refereed proceedings of the 11th Indian Conference on Logic and Its Applications ICLA 2025 held in Kolkata India during February 3 5 2025 Four out the five invited talks are included in this book Out of the 26 submissions the program committee carefully selected 14 papers to be included in the proceedings The topics included are Mathematics Computer Science Philosophy Linguistics and Cognitive Science A special feature of ICLA is the inclusion of studies in systems of logic in the Indian tradition as well as historical research on logic

Mathematical Foundations of Computer Science 2014 Ersébet Csuhaj-Varjú,Martin Dietzfelbinger,Zoltán Ésik,2014-08-12 This two volume set LNCS 8634 and LNCS 8635 constitutes the refereed conference proceedings of the 39th International Symposium on Mathematical Foundations of Computer Science MFCS 2014 held in Budapest Hungary in August 2014 The 95 revised full papers presented together with 6 invited talks were carefully selected from 270 submissions The focus of the conference was on following topics Logic Semantics Automata Theory of Programming Algorithms Complexity Parallel and Distributed Computing Quantum Computing Automata Grammars and Formal Languages Combinatorics on Words Trees and Games

Temporal Logics in Computer Science Stéphane Demri,Valentin

Goranko, Martin Lange, 2016-10-13 This comprehensive text provides a modern and technically precise exposition of the fundamental theory and applications of temporal logics in computer science Part I presents the basics of discrete transition systems including constructions and behavioural equivalences Part II examines the most important temporal logics for transition systems and Part III looks at their expressiveness and complexity Finally Part IV describes the main computational methods and decision procedures for model checking and model building based on tableaux automata and games and discusses their relationships The book contains a wealth of examples and exercises as well as an extensive annotated bibliography Thus the book is not only a solid professional reference for researchers in the field but also a comprehensive graduate textbook that can be used for self study as well as for teaching courses **Automata, Languages, and**

Programming Javier Esparza, Pierre Fraigniaud, Thore Husfeldt, Elias Koutsoupias, 2014-06-11 This two volume set of LNCS 8572 and LNCS 8573 constitutes the refereed proceedings of the 41st International Colloquium on Automata Languages and Programming ICALP 2014 held in Copenhagen Denmark in July 2014 The total of 136 revised full papers presented together with 4 invited talks were carefully reviewed and selected from 484 submissions The papers are organized in three tracks focussing on Algorithms Complexity and Games Logic Semantics Automata and Theory of Programming Foundations of Networked Computation Computer Aided Verification Rupak Majumdar, Viktor Kunčák, 2017-07-11 The two volume set

LNCS 10426 and LNCS 10427 constitutes the refereed proceedings of the 29th International Conference on Computer Aided Verification CAV 2017 held in Heidelberg Germany in July 2017 The total of 50 full and 7 short papers presented together with 5 keynotes and tutorials in the proceedings was carefully reviewed and selected from 191 submissions The CAV conference series is dedicated to the advancement of the theory and practice of computer aided formal analysis of hardware and software systems The conference covers the spectrum from theoretical results to concrete applications with an emphasis on practical verification tools and the algorithms and techniques that are needed for their implementation **Aqueous**

Lubrication: Natural And Biomimetic Approaches Nicholas D Spencer, 2014-03-24 Man lubricates mostly with oil Nature lubricates exclusively with water Pure water is a poor lubricant but the addition of proteins especially glycoproteins can modify surfaces to make them far more lubricating at slow speeds Understanding how nature does this and the physical structures involved is not only important for the understanding of diseases such as osteoarthritis but also essential for the successful application of articulating implants such as hips and knees as well as the development of medical devices such as catheters and contact lenses A host of important applications of water based lubrication are already in place in the personal care and food industries and further industrial applications of water based lubrication could have a significant positive impact on the environment This book is the first of its kind It brings together the latest research in biological and biomimetic water based lubrication and is authored by the world's experts in the field *Proof Technology in Mathematics Research*

and Teaching Gila Hanna, David A. Reid, Michael de Villiers, 2019-10-02 This book presents chapters exploring the most recent

developments in the role of technology in proving The full range of topics related to this theme are explored including computer proving digital collaboration among mathematicians mathematics teaching in schools and universities and the use of the internet as a site of proof learning Proving is sometimes thought to be the aspect of mathematical activity most resistant to the influence of technological change While computational methods are well known to have a huge importance in applied mathematics there is a perception that mathematicians seeking to derive new mathematical results are unaffected by the digital era The reality is quite different Digital technologies have transformed how mathematicians work together how proof is taught in schools and universities and even the nature of proof itself Checking billions of cases in extremely large but finite sets impossible a few decades ago has now become a standard method of proof Distributed proving by teams of mathematicians working independently on sections of a problem has become very much easier as digital communication facilitates the sharing and comparison of results Proof assistants and dynamic proof environments have influenced the verification or refutation of conjectures and ultimately how and why proof is taught in schools And techniques from computer science for checking the validity of programs are being used to verify mathematical proofs Chapters in this book include not only research reports and case studies but also theoretical essays reviews of the state of the art in selected areas and historical studies The authors are experts in the field

Topics in Grammatical Inference Jeffrey Heinz, José M. Sempere, 2016-05-04 This book explains advanced theoretical and application related issues in grammatical inference a research area inside the inductive inference paradigm for machine learning The first three chapters of the book deal with issues regarding theoretical learning frameworks the next four chapters focus on the main classes of formal languages according to Chomsky's hierarchy in particular regular and context free languages and the final chapter addresses the processing of biosequences The topics chosen are of foundational interest with relatively mature and established results algorithms and conclusions The book will be of value to researchers and graduate students in areas such as theoretical computer science machine learning computational linguistics bioinformatics and cognitive psychology who are engaged with the study of learning especially of the structure underlying the concept to be learned Some knowledge of mathematics and theoretical computer science including formal language theory automata theory formal grammars and algorithmics is a prerequisite for reading this book

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