

UNDERGRADUATE TEXTS IN COMPUTER SCIENCE

Automata and Computability



DEXTER C. KOZEN

 Springer

Automata And Computability Undergraduate Texts In Computer Science

Benedek Nagy



Automata And Computability Undergraduate Texts In Computer Science:

Automata and Computability Dexter C. Kozen, 2012-12-06 The aim of this textbook is to provide undergraduate students with an introduction to the basic theoretical models of computability and to develop some of the model's rich and varied structure. Students who have already some experience with elementary discrete mathematics will find this a well-paced first course and a number of supplementary chapters introduce more advanced concepts. The first part of the book is devoted to finite automata and their properties. Pushdown automata provide a broader class of models and enable the analysis of context-free languages. In the remaining chapters, Turing machines are introduced and the book culminates in discussions of effective computability, decidability, and Gödel's incompleteness theorems. Plenty of exercises are provided ranging from the easy to the challenging. As a result, this text will make an ideal first course for students of computer science.

Automata and Computability Dexter C. Kozen, 2013-11-11 These are my lecture notes from CS381/481 Automata and Computability Theory, a one-semester senior-level course I have taught at Cornell University for many years. I took this course myself in the fall of 1974 as a first-year Ph.D. student at Cornell from Juris Hartmanis and have been in love with the subject ever since. The course is required for computer science majors at Cornell. It exists in two forms: CS481, an honors version, and CS381, a somewhat gentler-paced version. The syllabus is roughly the same, but CS481 goes deeper into the subject, covers more material, and is taught at a more abstract level. Students are encouraged to start off in one or the other, then switch within the first few weeks if they find the other version more suitable to their level of mathematical skill. The purpose of the course is twofold: to introduce computer science students to the rich heritage of models and abstractions that have arisen over the years and to develop the capacity to form abstractions of their own and reason in terms of them.

SOFSEM 2025: Theory and Practice of Computer Science Rastislav Kráľovič, Věra Kůrková, 2025-02-15 This book constitutes the proceedings of the 50th International Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2025, held in Bratislava, Slovak Republic, during January 20-23, 2025. The 48 full papers presented in this book were carefully reviewed and selected from 109 submissions. They include original research from all areas of foundations of computer science and artificial intelligence, focusing on AI-based algorithms and techniques, nature-inspired computing, machine learning theory, multi-agent algorithms and games, neural network theory, parallel and distributed computing, quantum computing, computability, decidability, classical and non-classical models of computation, computational complexity, computational learning, cryptographic techniques and security, data compression, data and pattern mining methods, discrete combinatorial optimization, automata, languages, machine models, rewriting systems, efficient data structures, graph structure, and algorithms, logics of computation, robotics, and other relevant theory topics in computing and AI.

Computability and Complexity Hubie Chen, 2023-08-29 A clear, comprehensive, and rigorous introduction to the theory of computation. What is computable? What leads to efficiency in computation? *Computability and Complexity* offers a clear, comprehensive, and rigorous

introduction to the mathematical study of the capabilities and limitations of computation Hubie Chen covers the core notions techniques methods and questions of the theory of computation before turning to several advanced topics Emphasizing intuitive learning and conceptual discussion this textbook's accessible approach offers a robust foundation for understanding both the reach and restrictions of algorithms and computers Extensive exercises and diagrams enhance streamlined student friendly presentation of mathematically rigorous material Includes thorough treatment of automata theory computability theory and complexity theory including the P versus NP question and the theory of NP completeness Suitable for undergraduate and graduate students researchers and professionals

Relational and Algebraic Methods in Computer Science Peter Höfner, Peter Jipsen, Wolfram Kahl, Martin Eric Müller, 2014-04-08 This book constitutes the proceedings of the 14th International Conference on Relational and Algebraic Methods in Computer Science RAMiCS 2014 held in Marienstatt Germany in April May 2014 The 25 revised full papers presented were carefully selected from 37 submissions The papers are structured in specific fields on concurrent Kleene algebras and related formalisms reasoning about computations and programs heterogeneous and categorical approaches applications of relational and algebraic methods and developments related to modal logics and lattices

Relations and Kleene Algebra in Computer Science Rudolf Berghammer, Bernhard Möller, Georg Struth, 2008-04-12 Constituting the refereed proceedings of the 10th International Conference on Relational Methods in Computer Science RelMiCS 2008 and the 5th International Conference on Applications of Kleene Algebras these papers were selected from numerous submissions

Automata Theory Javier Esparza, Michael Blondin, 2023-10-17 A comprehensive introduction to automata theory that uses the novel approach of viewing automata as data structures This textbook presents automata theory from a fresh viewpoint inspired by its main modern application program verification where automata are viewed as data structures for the algorithmic manipulation of sets and relations This novel automata as data structures paradigm makes holistic connections between automata theory and other areas of computer science not covered in traditional texts linking the study of algorithms and data structures with that of the theory of formal languages and computability Esparza and Blondin provide incisive overviews of core concepts along with illustrated examples and exercises that facilitate quick comprehension of rigorous material Uses novel automata as data structures approach Algorithm approach ideal for programmers looking to broaden their skill set and researchers in automata theory and formal verification The first introduction to automata on infinite words that does not assume prior knowledge of finite automata Suitable for both undergraduate and graduate students Thorough engaging presentation of concepts balances description examples and theoretical results Extensive illustrations exercises and solutions deepen comprehension

Lectures on the Curry-Howard Isomorphism Morten Heine Sørensen, Pawel Urzyczyn, 2006-07-04 The Curry Howard isomorphism states an amazing correspondence between systems of formal logic as encountered in proof theory and computational calculi as found in type theory For instance minimal propositional logic corresponds to simply typed lambda

calculus first order logic corresponds to dependent types second order logic corresponds to polymorphic types sequent calculus is related to explicit substitution etc The isomorphism has many aspects even at the syntactic level formulas correspond to types proofs correspond to terms provability corresponds to inhabitation proof normalization corresponds to term reduction etc But there is more to the isomorphism than this For instance it is an old idea due to Brouwer Kolmogorov and Heyting that a constructive proof of an implication is a procedure that transforms proofs of the antecedent into proofs of the succedent the Curry Howard isomorphism gives syntactic representations of such procedures The Curry Howard isomorphism also provides theoretical foundations for many modern proof assistant systems e g Coq This book give an introduction to parts of proof theory and related aspects of type theory relevant for the Curry Howard isomorphism It can serve as an introduction to any or both of typed lambda calculus and intuitionistic logic Key features The Curry Howard Isomorphism treated as common theme Reader friendly introduction to two complementary subjects Lambda calculus and constructive logics Thorough study of the connection between calculi and logics Elaborate study of classical logics and control operators Account of dialogue games for classical and intuitionistic logic Theoretical foundations of computer assisted reasoning The Curry Howard Isomorphism treated as the common theme Reader friendly introduction to two complementary subjects lambda calculus and constructive logics Thorough study of the connection between calculi and logics Elaborate study of classical logics and control operators Account of dialogue games for classical and intuitionistic logic Theoretical foundations of computer assisted reasoning

Implementation and Application of Automata Benedek Nagy, 2023-08-09 This book constitutes the proceedings of the 27th International Conference on Implementation and Application of Automata CIAA 2023 held in Famagusta North Cyprus during September 19 22 2023 The 20 regular papers presented in this book together with invited talks were carefully reviewed and selected from 30 submissions The topics of the papers cover various fields in the application implementation and theory of automata and related structures *Language and Automata Theory and Applications* Alberto Leporati, Carlos Martín-Vide, Dana Shapira, Claudio Zandron, 2020-02-25 This book constitutes the proceedings of the 14th International Conference on Language and Automata Theory and Applications LATA 2020 which was planned to be held in Milan Italy in March 2020 Due to the corona pandemic the actual conference was postponed and will be held together with LATA 2021 The 26 full papers presented in this volume were carefully reviewed and selected from 59 submissions They were organized in topical sections named algebraic structures automata complexity grammars languages trees and graphs and words and codes The book also contains 6 invited papers in full paper length

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