# LGEBRAIC STRUCTURES IN AUTOMATA AND DATABASES THEORY

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# **Algebraic Structures In Automata And Database Theory**

**Saeed Salehi** 

#### **Algebraic Structures In Automata And Database Theory:**

Algebraic Structures In Automata And Database Theory L Ja Greenglaz, A A Gvaramija, B I Plotkin, 1992-12-10 The book is devoted to the investigation of algebraic structure The emphasis is on the algebraic nature of real automation which appears as a natural three sorted algebraic structure that allows for a rich algebraic theory Based on a general category position fuzzy and stochastic automata are defined The final chapter is devoted to a database automata model Database is defined as an algebraic structure and this allows us to consider theoretical problems of databases Algebraic Structures in Automata and Databases Theory Boris Isaakovich Plotkin, L. Ja Greenglaz, A. A. Gvaramija, 1992 The book is devoted to the investigation of algebraic structure. The emphasis is on the algebraic nature of real automation which appears as a natural three sorted algebraic structure that allows for a rich algebraic theory Based on a general category position fuzzy and stochastic automata are defined The final chapter is devoted to a database automata model Database is defined as an algebraic structure and this allows us to consider theoretical problems of databases The *q*-theory of Finite Semigroups John Rhodes, Benjamin Steinberg, 2009-04-05 Discoveries in finite semigroups have influenced several mathematical fields including theoretical computer science tropical algebra via matrix theory with coefficients in semirings and other areas of modern algebra This comprehensive encyclopedic text will provide the reader from the graduate student to the researcher practitioner with a detailed understanding of modern finite semigroup theory focusing in particular on advanced topics on the cutting edge of research Key features 1 Develops g theory a new theory that provides a unifying approach to finite semigroup theory via quantization 2 Contains the only contemporary exposition of the complete theory of the complexity of finite semigroups 3 Introduces spectral theory into finite semigroup theory 4 Develops the theory of profinite semigroups from first principles making connections with spectra of Boolean algebras of regular languages 5 Presents over 70 research problems most new and hundreds of exercises Additional features 1 For newcomers an appendix on elementary finite semigroup theory 2 Extensive bibliography and index The q theory of Finite Semigroups presents important techniques and results many for the first time in book form and thereby updates and modernizes the literature of semigroup theory

Handbook of Algebra M. Hazewinkel,2000-04-06 Handbook of Algebra Semigroups, Algorithms, Automata, and Languages Gracinda M. S. Gomes, Jean Eric Pin, Pedro V. Silva, 2002 The thematic term on Semigroups Algorithms Automata and Languages organized at the International Centre of Mathematics Coimbra Portugal in May July 2001 was the gathering point for researchers working in the field of semigroups algorithms automata and languages These areas were selected considering their huge recent developments their potential applications and the motivation from other fields of mathematics and computer science This proceedings volume is a unique collection of advanced courses and original contributions on semigroups and their connections with logic automata languages group theory discrete dynamics topology and complexity A selection of open problems discussed during the thematic term is also included Dirichlet Forms and Stochastic

Processes Zhi-Ming Ma, Michael Röckner, Jia-An Yan, 1995 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications A Textbook of Discrete Mathematics-2/e Harish Mital, Vinay Kumar Goval, Deepak Kumar Goval, 2022-12-27 Discrete mathematics is the part of mathematics that is devoted to the study of discrete objects Discrete mathematics provides the mathematical foundations for many computer science courses including data structures algorithms database theory automata theory computer security and operating systems This book explains the basic principles of Discrete Mathematics and structures in five sections set theory relations and functions probability and counting techniques recurrence relations propositional logic lattices and Boolean Algebra the study of graphs and trees and algebraic structures and finite state machines In this Second Edition new and revised material is added related to number theory including the well ordering principle Principles are also given of mathematical induction division algorithm and the Euclidean algorithm with suitable examples and exercises Noncommutative Rings, Group Rings, Diagram Algebras and Their Applications Surender Kumar Jain, S. Parvathi, Dinesh Khurana, 2008 Articles in this volume are based on talks given at the International Conference on Noncommutative Rings Group Rings Diagram Algebras and Their Applications The conference provided researchers in mathematics with the opportunity to discuss new developments in these rapidly growing fields This book contains several excellent articles both expository and original with new and significant results It is suitable for graduate students and researchers interested in Ring Theory Diagram Algebras and related topics Making of a New Science Giorgio Ausiello, 2018-08-06 This book explains the development of theoretical computer science in its early stages specifically from 1965 to 1990 The author is among the pioneers of theoretical computer science and he guides the reader through the early stages of development of this new discipline He explains the origins of the field arising from disciplines such as logic mathematics and electronics and he describes the evolution of the key principles of computing in strands such as computability algorithms and programming But mainly it s a story about people pioneers with diverse backgrounds and characters came together to overcome philosophical and institutional challenges and build a community They collaborated on research efforts they established schools and conferences they developed the first related university courses they taught generations of future researchers and practitioners and they set up the key publications to communicate and archive their knowledge The book is a fascinating insight into the field as it existed and evolved it will be valuable reading for anyone interested in the history of computing Contributions to General Algebra 14 Ivan Chajda,2004

Theoretical Computer Science - Proceedings Of The 6th Italian Conference Giuseppe Pirillo, Pierpaolo Degano, Ugo Vaccaro, 1998-10-15 The Italian Conference on Theoretical Computer Science ICTCS 98 is the annual conference of the Italian Chapter of the European Association for Theoretical Computer Science The Conference aims at enabling

computer scientists especially young researchers to enter the community and to exchange theoretical ideas and results as well as theoretical based practical experiences and tools in computer science This volume contains 32 papers selected out of 50 submissions The main topics include computability automata formal languages term rewriting analysis and design of algorithms computational geometry computational complexity symbolic and algebraic computation cryptography and security data types and data structures semantics of programming languages program specification and verification foundations of logic programming parallel and distributed computation and theory of concurrency The volume provides an up to date view of the status of several relevant topics in theoretical computer science and suggests directions for future research It constitutes a valuable working tool for researchers and graduate students 

Groups, Algebras and Identities Eugene Plotkin,2019-03-19 A co publication of the AMS and Bar Ilan University This volume contains the proceedings of the Research Workshop of the Israel Science Foundation on Groups Algebras and Identities held from March 20 24 2016 at Bar Ilan University and The Hebrew University of Jerusalem Israel in honor of Boris Plotkin s 90th birthday The papers in this volume cover various topics of universal algebra universal algebraic geometry logic geometry and algebraic logic as well as applications of universal algebra to computer science geometric ring theory small cancellation theory and Boolean algebras

Infinite Groups 1994 Francesco De Giovanni, Martin L. Newell, 1996 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications Universal Algebra, Algebraic Logic, and Databases B. Plotkin, 2012-12-06 Modern algebra which not long ago seemed to be a science divorced from real life now has numerous applications Many fine algebraic structures are endowed with meaningful contents Now and then practice suggests new and unexpected structures enriching algebra This does not mean that algebra has become merely a tool for applications Quite the contrary it significantly benefits from the new connections. The present book is devoted to some algebraic aspects of the theory of databases It consists of three parts The first part contains information about universal algebra algebraic logic is the subject of the second part and the third one deals with databases The algebraic material of the flI St two parts serves the common purpose of applying algebra to databases The book is intended for use by mathematicians and mainly by algebraists who realize the necessity to unite theory and practice It is also addressed to programmers engineers and all potential users of mathematics who want to construct their models with the help of algebra and logic Nowadays the majority of professional mathematicians work in close cooperation with representatives of applied sciences and even industrial technology It is neces sary to develop an ability to see mathematics in different particular situations One of the tasks of this book is to promote the acquisition of such skills **Graph Algebras and Automata** Andrei Kelarev, 2003-07-08 Graph algebras possess the capacity to relate fundamental concepts of computer science combinatorics graph theory operations research and universal

algebra They are used to identify nontrivial connections across notions expose conceptual properties and mediate the application of methods from one area toward questions of the other four After a concentrated review of the prerequisite mathematical background Graph Algebras and Automata defines graph algebras and reveals their applicability to automata theory It proceeds to explore assorted monoids semigroups rings codes and other algebraic structures and to outline theorems and algorithms for finite state automata and grammars A Structural Theory for Varieties of Tree **Languages** Saeed Salehi, 2010-02 Trees are among the most fundamental and ubiquitous structures in mathematics and computer science The notion of tree appears in many seemingly different areas from graph theory to universal algebra to logic Tree languages and automata on trees have been studied extensively since the 1960s from both a purely mathematical and application point of view Though the theory of tree automata and tree languages may have come into existence by generalizing string automata and languages but it could not have stayed alive for long as a mere generalization Apart from its intrinsic interest this theory has found several applications and offers new perspectives to various parts of mathematical linguistics It has been applied to the study of databases and XML schema languages and provides tools for syntactic pattern recognition When trees are defined as terms universal algebra becomes directly applicable to tree automata and tree languages and on the other hand the theory of tree automata and tree languages suggests new notions and problems to universal algebra In this book the theory has been studied from the algebraic viewpoint **Database Theory - ICDT '92** Joachim Biskup, Richard Hull, 1992-10-05 The papers in this volume were presented at the International Conference on Database Theory held in Berlin Germany October 14 16 1992 This conference initiated the merger of two series of conferences on theoretical aspects of databases that were formed in parallel by different scientific communities in Europe The first series was known as the International Conference on Database Theory and the second as the Symposium on Mathematical Fundamentals of Database Systems In the future ICDT will be organized every two years alternating with the more practically oriented series of conferences on Extending Database Technology EDBT The volume contains 3 invited lectures and 26 contributed papers selected from a total of 107 submissions. The papers are organized into sections on constraints and decomposition query languages updates and active databases concurrency control and recovery knowledge bases datalog complexity and optimization object orientation information capacity and security and data structures and algorithms Two of the invited papers survey research into theoretical database issues done in Eastern Europe during the past Introduction to Abstract Algebra Dr. Kuldeep Singh, Dr. Ankur Bala, Dr. Saurav Suman, 2024-10-19 decade Mathematicians who specialize in abstract algebra study algebraic structures like fields rings and groups Abstract algebra investigates the fundamental ideas and patterns that underpin these procedures as contrast to elementary algebra which works with particular equations and operations on numbers It is a fundamental topic with applications in computer science cryptography and physics It also offers the theoretical basis for many other areas of mathematics The idea of a group which

is a set with a single operation that meets axioms such as closure associativity the presence of an identity element and the existence of inverses is one of the fundamental ideas in abstract algebra A common subject in the study of symmetry and transformations is groups By adding new operations including addition and multiplication and examining their interactions rings and fields expand on fundamental concepts By studying abstract algebra mathematicians may identify patterns and correlations that remain across many systems by moving from concrete numbers to more generalized things This abstraction makes it possible to comprehend mathematical structures more deeply and inspires the creation of new ideas and instruments As a field of study abstract algebra serves as a doorway to more complicated mathematical analysis and as a potent language for characterizing intricate systems across a range of scientific fields The importance of abstract algebra is not limited to mathematics alone it also affects other practical disciplines For example in computer science knowledge of abstract algebraic structures is essential to comprehending data structures algorithms and cryptographic systems Group theory and field theory ideas play a major role in cryptography which protects digital communications in the creation and cracking of encryption systems Similar to this group theory s description of symmetry operations in physics aids in the explanation of key ideas in relativity and guantum mechanics. This field is intrinsic abstraction encourages other ways of thinking It promotes the development of rigorous yet creative problem solving abilities since it often calls for identifying patterns and generalizations that are not immediately apparent This ability to think abstractly is useful not just in mathematics but also in other fields like economics engineering and biology that study complex systems Because of its degree of abstraction and divergence from the arithmetic and algebraic intuition acquired in previous mathematics courses abstract algebra may be difficult to understand in educational settings Mathematical Reviews ,2001 Advances in **Computers** ,1994-09-29 Advances in Computers

This book delves into Algebraic Structures In Automata And Database Theory. Algebraic Structures In Automata And Database Theory is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Algebraic Structures In Automata And Database Theory, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
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  - Chapter 2: Essential Elements of Algebraic Structures In Automata And Database Theory
  - o Chapter 3: Algebraic Structures In Automata And Database Theory in Everyday Life
  - Chapter 4: Algebraic Structures In Automata And Database Theory in Specific Contexts
  - $\circ$  Chapter 5: Conclusion
- 2. In chapter 1, the author will provide an overview of Algebraic Structures In Automata And Database Theory. The first chapter will explore what Algebraic Structures In Automata And Database Theory is, why Algebraic Structures In Automata And Database Theory is vital, and how to effectively learn about Algebraic Structures In Automata And Database Theory.
- 3. In chapter 2, this book will delve into the foundational concepts of Algebraic Structures In Automata And Database Theory. The second chapter will elucidate the essential principles that need to be understood to grasp Algebraic Structures In Automata And Database Theory in its entirety.
- 4. In chapter 3, this book will examine the practical applications of Algebraic Structures In Automata And Database Theory in daily life. The third chapter will showcase real-world examples of how Algebraic Structures In Automata And Database Theory can be effectively utilized in everyday scenarios.
- 5. In chapter 4, this book will scrutinize the relevance of Algebraic Structures In Automata And Database Theory in specific contexts. This chapter will explore how Algebraic Structures In Automata And Database Theory is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, the author will draw a conclusion about Algebraic Structures In Automata And Database Theory. The final chapter will summarize the key points that have been discussed throughout the book.
  The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Algebraic Structures In Automata And Database Theory.

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