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# SEMIGROUPS, AUTOMATA AND LANGUAGES

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edited by

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World Scientific

# Semigroups Automata And Languages

**Simon M. Goberstein, Peter M. Higgins**



## **Semigroups Automata And Languages:**

**Semigroups, Automata And Languages** Jorge Almeida, Pedro V Silva, Gracinda M S Gomes, 1996-01-27 The conference was a rare occasion for different schools and perspectives to meet in a single event bringing together researchers interested in semigroups automata and languages The proceedings contain both surveys and research reports which have been carefully refereed They should be of value to both mathematicians and computer scientists **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 Semigroups, Automata,

and Languages Jorge Almeida, Gracinda M. S. Gomes, Pedro V. Silva, 1996 **Varieties of Formal Languages** Jean Eric Pin, 1986 *Structural Theory of Automata, Semigroups, and Universal Algebra* Valery B. Kudryavtsev, Ivo G.

Rosenberg, 2006-01-18 Several of the contributions to this volume bring forward many mutually beneficial interactions and connections between the three domains of the title Developing them was the main purpose of the NATO ASI summerschool held in Montreal in 2003 Although some connections for example between semigroups and automata were known for a long time developing them and surveying them in one volume is novel and hopefully stimulating for the future Another aspect is the emphasis on the structural theory of automata that studies ways to construct big automata from small ones The volume also has contributions on top current research or surveys in the three domains One contribution even links clones of universal algebra with the computational complexity of computer science Three contributions introduce the reader to research in the former East block **Semigroups And Applications** John M Howie, Nik Ruskuc, 1998-12-08 This volume

contains contributions from leading experts in the rapidly developing field of semigroup theory The subject now some 60 years old began by imitating group theory and ring theory but quickly developed an impetus of its own and the semigroup turned out to be the most useful algebraic object in theoretical computer science **Proceedings of the Workshop**

**Semigroups and Languages** Isabel M. Arafjo, 2004 In recent years semigroups and languages have seen huge developments and found their motivation in other fields of mathematics as well as in computer science This book is a collection of original contributions in those fields The proceedings have been selected for coverage in OCo Index to Scientific Technical Proceedings ISTP ISI Proceedings OCo Index to Scientific Technical Proceedings ISTP CDROM version ISI

Proceedings OCo CC Proceedings OCo Engineering Physical Sciences **Algebraic Engineering - Proceedings Of The**

**First International Conference On Semigroups And Algebraic Eng And Workshop On For** Chrystopher L Nehaniv, Masami Ito, 1999-05-14 There is algebraic structure in time computation and biological systems Algebraic engineering exploits this structure to achieve better understanding and design In this book pure and applied results in semigroups language theory and algebra are applied to areas ranging from circuit design to software engineering to biological evolution *Semigroups and Formal Languages* Jorge M. Andre, 2007 This festschrift volume in honour of Donald B McAlister on the occasion of his 65th birthday presents papers from leading researchers in semigroups and formal languages The contributors cover a number of areas of current interest from pseudovarieties and regular languages to ordered groupoids and one relator groups and from semigroup algebras to presentations of monoids and transformation semigroups The papers are accessible to graduate students as well as researchers seeking new directions for future work

**Advances in the Theory of Varieties of Semigroups** Edmond W. H. Lee, 2023-04-08 This monograph thoroughly explores the development of the theory of varieties of semigroups and of two related algebras involution semigroups and monoids Through this in depth analysis readers will attain a deeper understanding of the differences between these three types of varieties which may otherwise seem counterintuitive New results with detailed proofs are also presented that answer previously unsolved fundamental problems Featuring both a comprehensive overview as well as highlighting the author's own significant contributions to the area this book will help establish this subfield as a matter of timely interest *Advances in the Theory of Varieties of Semigroups* will appeal to researchers in universal algebra and will be particularly valuable for specialists in semigroups **Semigroups: Proc Of The International Conference** Giralde Giralde, Paula Martins, Paula Smith, 2000-10-09 This book contains contributions by leading experts which cover an extensive range of topics in semigroups theory Some of the articles exhibit the strong links with theoretical computer science Several survey articles summarize the salient features of special fields of the theory of particular interest in the contemporary research Special care has been taken in the presentation of the papers making them accessible to a large audience **Semigroups, Formal Languages and Groups** J.B. Fountain, 1995-06-14 This volume presents the core of invited expository lectures given at the 1993 NATO ASI held at the University of York The subject matter of the ASI was the interplay between automata semigroups formal languages and groups The invited talks were of an introductory nature but at a high level and many reached the cutting edge of research in the area The lectures were given to a mixed group of students and specialists and were designed to be accessible to a broad audience The papers were written in a similar spirit in the hope that their readership will be as wide as possible With one exception they are all based on the talks which the lecturers gave at the meeting The exception is caused by the fact that due to unanticipated progress the topic of John Rhodes talk is now in such a state of flux that it has not been possible to produce a paper giving a clear picture of the situation However we do include an article by a member of the Rhodes school namely Christopher Nehaniv expanding on a contributed talk he gave It generalizes the celebrated Krohn

Rhodes theorem for finite semigroups to all semigroups For many years there has been a strong link between formal language theory and the theory of semigroups Each subject continues to influence the other Semigroups, Formal Languages and Groups J.B. Fountain,1995-05-31 Semigroups Formal Languages and Groups contains articles that provide introductory accounts of recent research in rational languages and their connections with finite semigroups including the celebrated BG PG theorem infinite languages free profinite monoids and their applications to pseudovarieties parallel complexity classes related to automata semigroups and logic algebraic monoids geometric methods in semigroup presentations automatic groups and groups acting on Lambda trees There is also an extensive survey of algorithmic problems in groups semigroups and inverse monoids In addition the book includes hitherto unpublished research on monoids of Lie type and their representations free actions of groups on Lambda trees and an extension to arbitrary semigroups of the famous Krohn Rhodes theorem **Topics on Combinatorial Semigroups** Yuqi Guo,Yun Liu,Shoufeng Wang,2024-04-22 By

combinatorial semigroups we mean a general term of concepts facts and methods which are produced in investigating of algebraic and combinatorial properties constructions classifications and interrelations of formal languages and automata codes finite and infinite words by using semigroup theory and combinatorial analysis The main research objects in this field are the elements and subsets of the free semigroups and monoids and many combinatorial properties of these objects which are closely related to algebraic theory of semigroups This book first introduces some basic concepts and notations in combinatorial semigroups Since many contents involving the constructions of generalized disjunctive languages and regular languages are closely related to the algebraic theory of codes some selected topics are introduced in the following chapter including the method of defining codes by using dependence systems the maximality and completeness of codes and the detailed discussion of some special kinds of codes such as convex codes semaphore codes and solid codes Then the remaining chapters present the main topics of the book regular languages disjunctive languages and their various kinds of generalizations This book might be useful to researchers in mathematics who are interested in combinatorial semigroups

**Global Sequential Coordinates on Semigroups, Automata, and Infinite Groups** Chrystopher Lev Nehaniv,1992 Words, Semigroups & Transductions Gheorghe P?un,Sheng Yu,Gabriel Thierrin,2001 This is an excellent collection of papers dealing with combinatorics on words codes semigroups automata languages molecular computing transducers logics etc related to the impressive work of Gabriel Thierrin This volume is in honor of Professor Thierrin on the occasion of his 80th birthday Contents Some Operators on Families of Fuzzy Languages and Their Monoids P R J Asveld Liars Demons and Chaos C S Calude et al Conditional Grammars with Restrictions by Syntactic Parameters J Dassow Circularity and Other Invariants of Gene Assembly in Ciliates A Ehrenfeucht et al Catenation Closed Pairs and Forest Languages C M Fan Valence Grammars with Target Sets H Fernau Minimal Recognizers and Syntactic Monoids of DR Tree Languages F G r cseg Visualizing Languages Using Primitive Powers T Head Disjunctivity H Jrgensen String Operations Suggested by DNA

Biochemistry The Balanced Cut Operation L Kari How to Generate Binary Codes Using Context Free Grammars L Kiszonyi Generation and Parsing of Morphism Languages by Uniquely Parallel Parsable Grammars J Lee On the Generative Power of Iterated Transductions V Manca Words Dyck Paths Trees and Bijections H Prodinger Iterated Morphisms with Complementarity on the DNA Alphabet A Salomaa Topologies for the Set of Disjunctive e Words L Staiger and other papers Readership Researchers in mathematics and computer science

**Lattices, Semigroups, and Universal Algebra** Jorge Almeida, Gabriela Bordalo, Philip Dwinger, 2013-11-11 This volume contains papers which for the most part are based on talks given at an international conference on Lattices Semigroups and Universal Algebra that was held in Lisbon Portugal during the week of June 20 24 1988 The conference was dedicated to the memory of Professor Antonio Almeida Costa a Portuguese mathematician who greatly contributed to the development of the algebra in Portugal on the 10 anniversary of his death The themes of the conference reflect some of his research interests and those of his students The purpose of the conference was to gather leading experts in Lattices Semigroups and Universal Algebra and to promote a discussion of recent developments and trends in these areas All three fields have grown rapidly during the last few decades with varying degrees of interaction Lattice theory and Universal Algebra have historically evolved alongside with a large overlap between the groups of researchers in the two fields More recently techniques and ideas of these theories have been used extensively in the theory of semigroups Conversely some developments in that area may inspire further developments in Universal Algebra On the other hand techniques of semi group theory have naturally been employed in the study of semilattices Several papers in this volume elaborate on these interactions

*Profinite Semigroups and Symbolic Dynamics* Jorge Almeida, Alfredo Costa, Revekka Kyriakoglou, Dominique Perrin, 2020-09-10 This book describes the relation between profinite semigroups and symbolic dynamics Profinite semigroups are topological semigroups which are compact and residually finite In particular free profinite semigroups can be seen as the completion of free semigroups with respect to the profinite metric In this metric two words are close if one needs a morphism on a large finite monoid to distinguish them The main focus is on a natural correspondence between minimal shift spaces closed shift invariant sets of two sided infinite words and maximal J classes certain subsets of free profinite semigroups This correspondence sheds light on many aspects of both profinite semigroups and symbolic dynamics For example the return words to a given word in a shift space can be related to the generators of the group of the corresponding J class The book is aimed at researchers and graduate students in mathematics or theoretical computer science

Semigroups and Their Applications Simon M. Gobrein, Peter M. Higgins, 2012-12-06 Most papers published in this volume are based on lectures presented at the Chico Conference on Semigroups held on the Chico campus of the California State University on April 10 12 1986 The conference was sponsored by the California State University Chico in cooperation with the Engineering Computer Sciences Department of the Pacific Gas and Electric Company The program included seven 50 minute addresses and seventeen 30 minute lectures Speakers were invited by the organizing

committee consisting of S M Gopherstein and P M Higgins The purpose of the conference was to bring together some of the leading researchers in the area of semigroup theory for a discussion of major recent developments in the field The algebraic theory of semigroups is growing so rapidly and new important results are being produced at such a rate that the need for another meeting was well justified It was hoped that the conference would help to disseminate new results more rapidly among those working in semi groups and related areas and that the exchange of ideas would stimulate research in the subject even further These hopes were realized beyond all expectations

**Words, Semigroups, And Transductions:**  
**Festschrift In Honor Of Gabriel Thierrin** Masami Ito,Gheorghe Paun,Sheng Yu,2001-11-12 This is an excellent collection of papers dealing with combinatorics on words codes semigroups automata languages molecular computing transducers logics etc related to the impressive work of Gabriel Thierrin This volume is in honor of Professor Thierrin on the occasion of his 80th birthday

## **Semigroups Automata And Languages Book Review: Unveiling the Magic of Language**

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Semigroups Automata And Languages**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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