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Semirings, Automata, Languages

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Semirings Automata Languages

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Semirings Automata Languages:

Semirings, Automata, Languages W. Kuich,A. Salomaa,2012-12-06 Automata theory is the oldest among the disciplines constituting the subject matter of this Monograph Series theoretical computer science Indeed automata theory and the closely related theory of formal languages form nowadays such a highly developed and diversified body of knowledge that even an exposition of reasonably important results is not possible within one volume The purpose of this book is to develop the theory of automata and formal languages starting from ideas based on linear algebra By what was said above it should be obvious that we do not intend to be encyclopedic However this book contains the basics of regular and context free languages including some new results as well as a rather complete theory of pushdown automata and variations e g counter automata The wellknown AFL theory is extended to power series AFP theory Additional new results include for instance a grammatical characterization of the cones and the principal cones of context free languages as well as new decidability results *Automata, Languages and Programming* Luca Aceto,Ivan Damgaard,Leslie Ann Goldberg,Magnus M. Halldorsson,Anna Ingolfsdottir,Igor Walukiewicz,2008-06-24 ICALP 2008 the 35th edition of the International Colloquium on Automata Languages and Programming was held in Reykjavik Iceland July 7 11 2008 ICALP is a series of annual conferences of the European Association for Th reticalComputer Science EATCS which rsttook placein 1972 This year the ICALP program consisted of the established Track A focusing on algorithms automata complexityandgames andTrackB focusing onlogic semanticsand theory of programming and of the recently introduced Track C focusing on security and cryptography foundations In response to the call for papers the Program Committees received 477 submissions the highest ever 269 for Track A 122 for TrackB and 86 for Track C Out of these 126 papers were selected for inclusion in the scienti c program 70 papers for Track A 32 for Track B and 24 for Track C The selection was made by the Program Committees based on originality quality and relevance to theoretical computer science The quality of the manuscripts was very high indeed and many deserving papers could not be selected ICALP 2008 consisted of ve invited lectures and the contributed papers

Automata, Languages, and Programming ,2005 Semirings and Affine Equations over Them Jonathan S. Golan,2013-03-14 Semiring theory stands with a foot in each of two mathematical domains The first being abstract algebra and the other the fields of applied mathematics such as optimization theory the theory of discrete event dynamical systems automata theory and formal language theory as well as from the allied areas of theoretical computer science and theoretical physics Most important applications of semiring theory in these areas turn out to revolve around the problem of finding the equalizer of a pair of affine maps between two semimodules In this volume we chart the state of the art on solving this problem and present many specific cases of applications This book is essentially the third part of a trilogy along with Semirings and their Applications and Power Algebras over Semirings both written by the same author and published by Kluwer Academic Publishers in 1999 While each book can be read independently of the others to get the full force of the

theory and applications one should have access to all three This work will be of interest to academic and industrial researchers and graduate students The intent of the book is to bring the applications to the attention of the abstract mathematicians and to make the abstract mathematics available to those who are using these tools in an ad hoc manner without realizing the full force of the theory *A Guide to the Literature on Semirings and their Applications in Mathematics and Information Sciences* K. Glazek,2013-06-29 This volume presents a short guide to the extensive literature concerning semir ings along with a complete bibliography The literature has been created over many years in variety of languages by authors representing different schools of mathematics and working in various related fields In many instances the terminology used is not universal which further compounds the difficulty of locating pertinent sources even in this age of the Internet and electronic dis semination of research results So far there has been no single reference that could guide the interested scholar or student to the relevant publications This book is an attempt to fill this gap My interest in the theory of semirings began in the early sixties when to gether with Bogdan W glorz I tried to investigate some algebraic aspects of compactifications of topological spaces semirings of semicontinuous functions and the general ideal theory for special semirings Unfortunately local alge braists in Poland told me at that time that there was nothing interesting in investigating semiring theory because ring theory was still being developed However some time later we became aware of some similar investigations hav ing already been done The theory of semirings has remained my first love ever since and I have been interested in the results in this field that have been appearing in literature even though I have not been active in this area myself Semirings and their Applications Jonathan S. Golan,2013-04-18 There is no branch of mathematics however abstract which may not some day be applied to phenomena of the real world Nikolai Ivanovich Lobatchevsky This book is an extensively revised and expanded version of The Theory of Semirings with Applicationsin Mathematics and Theoretical Computer Science Golan 1992 first published by Longman When that book went out of print it became clear in light of the significant advances in semiring theory over the past years and its new important applications in such areas as idempotent analysis and the theory of discrete event dynamical systems that a second edition incorporating minor changes would not be sufficient and that a major revision of the book was in order Therefore though the structure of the first dition was preserved the text was extensively rewritten and substantially expanded In particular references to many interesting and applications of semiring theory developed in the past few years had to be added Unfortunately I find that it is best not to go into these applications in detail for that would entail long digressions into various domains of pure and applied mathematics which would only detract from the unity of the volume and increase its length considerably However I have tried to provide an extensive collection of examples to arouse the reader s interest in applications as well as sufficient citations to allow the interested reader to locate them For the reader s convenience an index to these citations is given at the end of the book Semirings: Algebraic Theory And Applications In Computer Science Hanns Joachim Weinert,1998-10-30 This book

provides an introduction to the algebraic theory of semirings and in this context to basic algebraic concepts as e g semigroups lattices and rings It includes an algebraic theory of infinite sums as well as a detailed treatment of several applications in theoretical computer science Complete proofs various examples and exercises some of them with solutions make the book suitable for self study On the other hand a more experienced reader who looks for information about the most common concepts and results on semirings will find cross references throughout the book a comprehensive bibliography and various hints to it **Developments in Language Theory** Oscar H. Ibarra,Zhe Dang,2006-06-21 This book constitutes the refereed proceedings of the 10th International Conference on Developments in Language Theory DLT 2006 held in Santa Barbara CA USA in June 2006 The 36 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 63 submissions All important issues in language theory are addressed including grammars acceptors and transducers for strings trees graphs arrays efficient text algorithms algebraic theories for automata and languages combinatorial and algebraic properties of words and languages variable length codes symbolic dynamics decision problems relations to complexity theory and logic picture description and analysis polyominoes and bidimensional patterns cryptography concurrency bio inspired computing and quantum computing Developments In Language Theory: At The Crossroads Of Mathematics, Computer Sci And Biology Grzegorz Rozenberg,Arto Salomaa,1994-04-30 This proceedings volume provides a modern synopsis of recent studies concerning certain areas of language theory very close to applications The topics covered range from image generation and developmental models to combinatorics of words and formal power series as well as from fractals to computational complexity Although the contributions represent ongoing research much of the material is accessible to a reader with only a moderate previous knowledge of the subject **State of the Art in Computational Morphology** Cerstin Mahlow,Michael Piotrowski,2009-08-28 From the point of view of computational linguistics morphological resources are the basis for all higher level applications This is especially true for languages with a rich morphology such as German or Finnish A morphology component should thus be capable of analyzing single word forms as well as whole corpora For many practical applications not only morphological analysis but also generation is required i e the production of surfaces corresponding to speci c categories Apart from uses in computational linguistics there are also numerous practical plications that either require morphological analysis and generation or that can greatly bene t from it for example in text processing user interfaces or information trieval These applications have speci c requirements for morphological components including requirements from software engineering such as programming interfaces or robustness In 1994 the First Morpholympics took place at the University of Erlangen Nuremberg a competition between several systems for the analysis and generation of German word forms Eight systems participated in the First Morpholympics the conference proceedings 1 thus give a very good overview of the state of the art in computational morphologyfor German as of 1994

Algebraic Foundations in Computer Science Werner Kuich,George Rahonis,2011-10-13 This collection of 15 papers

honors the career of Symeon Bozapalidis The focus is on his teaching subjects algebra linear algebra mathematical logic number theory automata theory tree languages and series algebraic semantics and fuzzy languages New Developments in Formal Languages and Applications Gemma Bel-Enguix,M Dolores Jiménez-López,Carlos Martin-Vide,2008-06-24 The theory of formal languages is widely recognized as the backbone of theoretical computer science originating from mathematics and generative linguistics among others As a foundational discipline formal language theory concepts and techniques are present in a variety of theoretical and applied fields of contemporary research which are concerned with symbol manipulation discrete mathematics bioinformatics natural language processing pattern recognition text retrieval learning cryptography compression etc This volume presents the main results of some recent quickly developing subfields of formal language theory in an easily accessible way and provides the reader with extensive bibliographical references to go deeper Open problems are formulated too The intended audience consists of undergraduates and graduates in computer science or mathematics Graduates in other disciplines linguistics electrical engineering molecular biology logic with some basic level of mathematical maturity may find the volume appealing and useful too The book represents a gate to formal language theory and its applications and a source of information in computation theory in general This volume is complementary of the volumes in the Springer series Studies in Fuzziness and Soft Computing number 148 and Studies in Computational Intelligence 25 *Recent Advances in Formal Languages and Applications* Zoltán Ésik,Carlos Martin-Vide,Victor Mitrana,2006-07-07 The contributors present the main results and techniques of their specialties in an easily accessible way accompanied with many references historical hints for complete proofs or solutions to exercises and directions for further research This volume contains applications which have not appeared in any collection of this type The book is a general source of information in computation theory at the undergraduate and research level **Handbook of Formal Languages** Grzegorz Rozenberg,Arto Salomaa,2012-12-06 The need for a comprehensive survey type exposition on formal languages and related mainstream areas of computer science has been evident for some years If the early 1970s when the book Formal Languages by the second quite feasible to write a comprehensive mentioned editor appeared it was still book with that title and include also topics of current research interest This would not be possible anymore A standard sized book on formal languages would either have to stay on a fairly low level or else be specialized and restricted to some narrow sector of the field The setup becomes drastically different in a collection of contributions where the best authorities in the world join forces each of them concentrat ing on their own areas of specialization The present three volume Handbook constitutes such a unique collection In these three volumes we present the current state of the art in formal language theory We were most satisfied with the enthusiastic response given to our request for contributions by specialists representing various subfields The need for a Handbook of Formal Languages was in many answers expressed in different ways as an easily accessible his torical reference a general source of information an overall course aid and a compact collection of

material for self study We are convinced that the final result will satisfy such various needs The theory of formal languages constitutes the stem or backbone of the field of science now generally known as theoretical computer science

Mathematical Foundations of Computer Science 2000 Mogens Nielsen,Branislav Rovan,2003-06-29 This book constitutes the refereed proceedings of the 25th International Symposium on Mathematical Foundations of Computer Science MFCS 2000 held in Bratislava Slovakia in August September 2000 The 57 revised full papers presented together with eight invited papers were carefully reviewed and selected from a total of 147 submissions The book gives an excellent overview on current research in theoretical informatics All relevant foundational issues from mathematical logics as well as from discrete mathematics are covered Anybody interested in theoretical computer science or the theory of computing will benefit from this book *Foundations of Computer Science* Wilfried Brauer,1997-10-24 Content Description Dedicated to Wilfried Brauer Includes bibliographical references and index **Mathematical Foundations of Computer Science 1998** Lubos Brim,Jiri Zlatuska,Josef Gruska,1998-08-12 This book constitutes the refereed proceedings of the 23rd International Symposium on the Mathematical Foundations of Computer Science MFCS 98 held in Brno Czech Republic in August 1998 The 71 revised full papers presented were carefully reviewed and selected from a total of 168 submissions Also included are 11 full invited surveys by prominent leaders in the area The papers are organized in topical sections on problem complexity logic semantics and automata rewriting automata and transducers typing concurrency semantics and logic circuit complexity programming structural complexity formal languages graphs Turing complexity and logic binary decision diagrams etc

Developments in Language Theory Marie-Pierre Beal,Olivier Carton,2013-06-12 This book constitutes the proceedings of the 17th International Conference on Developments in Language Theory DLT 2013 held in Marne la Vall e France in June 2013 The 34 full papers presented in this volume were carefully reviewed and selected from 63 submissions The scope of the conference includes among others the following topics and areas combinatorial and algebraic properties of words and languages grammars acceptors and transducers for strings trees graphs arrays algebraic theories for automata and languages codes efficient text algorithms symbolic dynamics decision problems relationships to complexity theory and logic picture description and analysis polyominoes and bidimensional patterns cryptography concurrency cellular automata bio inspired computing and quantum computing **Finite-State Methods and Natural Language Processing** Anssi Yli-Jyrä,Andras Kornai,Jacques Sakarovitch,Bruce Watson,2010-08-05 This book constitutes the refereed proceedings of the 8th International Workshop on the Finite State Methods and Natural Language Processing FSMNLP 2009 The workshop was held at the University of Pretoria South Africa on July 2009 In total 21 papers were submitted and of those papers 13 were accepted as regular papers and a further 6 as extended abstracts The papers are devoted to computational morphology natural language processing finite state methods automata and related formal language theory **Developments in Language Theory** Zoltán Ésik,Zoltán Fülöp,2003-08-03 The refereed proceedings of the 7th International Conference on

Developments in Language Theory DLT 2003 held in Szeged Hungary in July 2003 The 27 revised full papers presented together with 7 invited papers were carefully reviewed and selected from 57 submissions All current aspects in language theory are addressed in particular grammars acceptors and transducers for strings trees graphs arrays etc algebraic theories for automata and languages combinatorial properties of words and languages formal power series decision problems efficient algorithms for automata and languages and relations to complexity theory and logic picture description and analysis DNA computing quantum computing cryptography and concurrency

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