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**Semirings, Automata,
Languages**



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Semirings Automata Languages

Kazimierz Głazek



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 Ingólfssdóttir, 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 Theoretical Computer Science EATCS which first took place in 1972 This year the ICALP program consisted of the established Track A focusing on algorithms automata complexity and games and Track B focusing on logic semantics and 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 Track B and 86 for Track C Out of these 126 papers were selected for inclusion in the scientific 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 five invited lectures and the contributed papers

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 semirings 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 dissemination 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 together with Bogdan W. Glazek 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 algebraists 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 having 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 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.

Automata, Languages, and Programming, 2005 *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 Lobachevsky. This book is an extensively revised and expanded version of *The Theory of Semirings with Applications in 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 edition 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, AUTOMATA, LANGUAGES Werner Kuich, Arto Salomaa, 1986 **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 Automata, Languages, and Programming Michael S. Paterson, 1990 Papers from the 17th International Colloquium held in England July 1990 They cover all important areas of theoretical computer science such as computability formal languages computational complexity data types and structures term rewriting systems robotics No index Annotation copyrighted by Book News Inc Portland OR

Automata, Languages and Programming Jos C.M. Baeten, 2003-06-25 The refereed proceedings of the 30th International Colloquium on Automata Languages and Programming ICALP 2003 held in Eindhoven The Netherlands in June July 2003 The 84 revised full papers presented together with six invited papers were carefully reviewed and selected from 212 submissions The papers are organized in topical sections on algorithms process algebra approximation algorithms languages and programming complexity data structures graph algorithms automata optimization and games graphs and bisimulation online problems verification the Internet temporal logic and model checking graph problems logic and lambda calculus data structures and algorithms types and categories probabilistic systems sampling and randomness scheduling and geometric problems

Arto Salomaa: Mathematician, Computer Scientist, and Teacher Jukka Paakki, 2019-10-08 This book outlines the scientific career of Arto Salomaa a pioneer in theoretical computer science and mathematics The author first interviewed the subject and his family and collaborators and he then researched this fascinating biography of an intellectual who was key in the development of these fields Early chapters progress chronologically from Academician Salomaa s origins childhood and education to his professional successes in science teaching and publishing His most impactful direct research efforts have been in the areas of automata and formal languages Beyond that he has influenced many more scientists and professionals through collaborations teaching and books on topics such as biocomputing and cryptography The author offers insights into Finnish history culture and academia while historians of computer science will appreciate the vignettes describing some of the people who have shaped the field from the 1950s to today The author and his subject return throughout to underlying themes such as the importance of family and the value of longstanding collegial relationships while the work and achievements are leavened with humor and references to interests such as music sport and the sauna

The Theory of Semirings with Applications in Mathematics and Theoretical Computer Science Jonathan S. Golan, 1992

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