Semirings and their Applications

Jonathan S. Golan

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Fabrizio Broglia

Semirings And Their Applications:

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 and their Applications Jonathan S. Golan,1999-07-31 This work is an updated and considerably expanded version of the author s book The Theory of Semirings with Applications to Mathematics and Theoretical Science which has been recognized as the definitive reference work in this area This edition includes many of the new results in this area as well as further applications of semiring theory in such areas as idempotent analysis discrete dynamical systems formal language theory fuzzy set theory optimization etc The book contains an extensive bibliography and a large number of examples Audience This book is aimed both at mathematicians and at researchers in applied mathematics and theoretical computer science It is also suitable for use as a graduate level textbook   A Guide to the Literature on Semirings and their Applications in Mathematics and Information Sciences K. Glazek,2002-06-30 This book presents a guide to the extensive literature on the topic of semirings and includes a complete bibliography It serves as a complement to the existing monographs and a point of reference to researchers and students on this topic The literature on semirings has evolved over many years in a variety of languages by authors representing different schools of mathematics and working in various related fields Recently semiring theory has experienced rapid development although publications are widely scattered This survey also covers those newly emerged areas of semiring applications that have not received sufficient treatment in widely accessible monographs as well as many lesser known or forgotten works The author has been collecting the bibliographic data for this book since 1985 Over the years it has proved very useful for specialists For example J S Golan wrote he owed a special debt to Kazimierz Glazek whose bibliography proved to be an invaluable guide to the bewildering maze of literature

on semirings U Hebisch and H J Weinert also mentioned his collection of literature had been of great assistance to them Now updated to include publications up to the beginning of 2002 this work is available to a wide readership Audience This volume is the first single reference that can guide the interested scholar or student to the relevant publications in semirings semifields algebraic theory of languages and automata positive matrices and other generalisations and ordered semigroups and groups   *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   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   A short guide to the literature on semirings and their applications in mathematics and computer science Kazimierz Głazek,2000   *Semirings and Affine Equations over Them* Jonathan S. Golan,2003-06-30 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   Ordered Algebraic Structures and Related Topics Fabrizio Broglia,2017 Contains the proceedings of the international conference Ordered Algebraic Structures and Related Topics held in October 2015 at CIRM Luminy Marseilles Papers cover topics in real analytic geometry real algebra and real algebraic geometry including complexity issues model theory of various algebraic and differential structures Witt equivalence of fields and the moment problem   *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   **Developments in Language Theory** Masami Ito,2008-09-04 This book constitutes the refereed proceedings of the 12th International Conference on Developments in Language Theory DLT 2008 held in Kyoto Japan September 2008 The 36 revised full papers presented together with 6 invited papers were carefully reviewed and selected from 102 submissions All important issues in language theory are addressed including grammars acceptors and transducers for words trees and graphs algebraic theories of automata algorithmic combinatorial and algebraic properties of words and languages variable length codes symbolic dynamics cellular automata polyominoes and multidimensional patterns decidability questions image manipulation and compression efficient text algorithms relationships to cryptography concurrency complexity theory and logic bio inspired computing quantum computing   **Fuzzy Systems & Operations Research and Management** Bing-Yuan Cao,Zeng-Liang Liu,Yu-Bin Zhong,Hong-Hai Mi,2015-07-31 This book includes results of the seventh International Conference on Fuzzy

Information and Engineering ICFIE 2014 and the 1st International Conference of Operations Research and Management ICORM 2014 on November 7 11 2014 in ZhuHai China The book contains 35 selected high quality papers and is divided into five main parts Part I focuses on Fuzzy Systems and Its Applications Part II on Fuzzy Mathematics and Its Applications Part III discusses Fuzzy Information and Computer Part IV is devoted to Operations Research and Management and Its Applications and Part V includes various other topics **Surveys in Contemporary Mathematics** Nicholas Young,Yemon Choi,2008 A collection of articles showcasing the achievements of young Russian researchers in combinatorial and algebraic geometry and topology **Algebras for Feature-Oriented Software Development** Andreas Zelend,2020-04-07 This book systematically presents the underlying mathematical structures and foundations of feature orientation in the fields of software development New algebras are proposed and thorough investigations and discussions of their algebraic laws as well as insights on their practical applications are provided Feature oriented programming and feature oriented software development have been established in computer science as a general programming paradigm that provides formalisms methods languages and tools for building maintainable customizable and extensible software Feature orientation has widespread applications ranging from network protocols and data structures to software product lines **Tools and Algorithms for the Construction and Analysis of Systems** Nir Piterman,Scott Smolka,2013-02-17 This book constitutes the proceedings of the 19th International Conference on Tools and Algorithms for the Construction and Analysis of Systems TACAS 2013 held in Rome Italy in March 2013 The 42 papers presented in this volume were carefully reviewed and selected from 172 submissions They are organized in topical sections named Markov chains termination SAT SMT games and synthesis process algebra pushdown runtime verification and model checking concurrency learning and abduction timed automata security and access control frontiers graphics and quantum functional programs and types tool demonstrations explicit state model checking B chi automata and competition on software verification *Mathematics of Computer Science, Cybersecurity and Artificial Intelligence* Cheikh Thiecoumba Gueye,Papa Ngom,Idy Diop,2024-12-10 This proceedings book gathers selected peer reviewed papers presented at the Fifth Scientific Days of the Doctoral School of Mathematics and Computer Sciences S2DSMCS held from December 20 22 2023 at Cheikh Anta Diop University in Dakar Senegal The cutting edge works cover timely topics in cryptography cybersecurity and artificial intelligence with applications extending to fields such as telecommunications and smart networks This collection showcases research activities developed by a new generation of mathematicians and computer scientists from Africa Europe Asia and America By fostering cooperation among both young and experienced researchers the S2DSMSC conference aligns with other conferences in the region such as Africacrypt the International Conference on Cryptology in Africa the Non commutative Algebra and Operator Theory NANCAOT international workshops and the International Conference in Algebra Codes and Cryptology A2C all with proceedings published by Springer **A Guide to Groups, Rings, and Fields** Fernando Q. Gouvêa,2012-12-31 Insightful overview of many kinds of

algebraic structures that are ubiquitous in mathematics For researchers at graduate level and beyond **Relational and Algebraic Methods in Computer Science** Jules Desharnais,Walter Guttmann,Stef Joosten,2018-10-22 This book constitutes the proceedings of the 17th International Conference on Relational and Algebraic Methods in Computer Science RAMiCS 2018 held in Groningen The Netherlands in October November 2018 The 21 full papers and 1 invited paper presented together with 2 invited abstracts and 1 abstract of a tutorial were carefully selected from 31 submissions The papers are organized in the following topics Theoretical foundations reasoning about computations and programs and applications and tools **Neutrosophic Sets and Systems, Vol. 36, 2020** Florentin Smarandache,Mohamed Abdel-Basset, Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Some articles in this issue n Refined Neutrosophic Modules A Neutrosophic Approach to Digital Images A Novel Method for Neutrosophic Assignment Problem by using Interval Valued Trapezoidal Neutrosophic Number *Neutrosophic Sets and Systems. An International Journal in Information Science and Engineering, Vol. 36, 2020* Florentin Smarandache,Mohamed Abdel-Basset,Said Broumi,2020-10-01 Neutrosophic Sets and Systems NSS is an academic journal published quarterly online and on paper that has been created for publications of advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics etc and their applications in any field **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

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web it differed from the basic 6g74 in many ways apart from its unique fuel injection system it had a crown curved rather than flat piston head upright intake ports rather than angled and a 10 4 1 rather than 10 0 1 compression ratio mitsubishi claimed 30 percent better fuel economy a 30 percent reduction in emissions and higher power

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