

Mathematics and Its Applications

Jonathan S. Golan

Seminvariants and Affine Equations over Finite Theory and Applications



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Semirings And Affine Equations Over Them

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Semirings And Affine Equations Over Them:

Semirings and Affine Equations Over Them Jonathan S. Golan, 2014-01-15 *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 *(Generalized) Fuzzy Matrices And Relations* Herbert Toth, 2025-02-25 The book provides an overview of the main concepts and results related to fuzzy matrices and fuzzy relations using fuzzy in a general sense to mean many valued This overview along with numerous references to original contributions dispersed across various journals serves as a comprehensive guide for further exploration This volume can be viewed in two ways i as a companion to the author's previous work *Relations Concrete Abstract and Applied* published by WSPC 2020 but with a distinct emphasis on many valued concepts or ii as a standalone volume that can be read independently which necessarily includes some repetition of material from the earlier book as preliminary or reference content Similar to the previous book this one does not present new findings but offers a self contained compilation of known results selected from the extensive research conducted over the past five decades arranged in a systematic manner The topics covered in this text have been the subject of intensive research over the last two decades yet there has been no book publication on this subject for over 15 years This book aims to bridge that gap *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 **Handbook of Algebra** M. Hazewinkel, 2009-07-08 Algebra as we know it today consists of many different ideas concepts and results A reasonable estimate of the number of these different items would be somewhere between 50 000 and 200 000 Many of these have been named and many more could and perhaps should have a name or a convenient designation Even the nonspecialist is likely to encounter most of these either somewhere in the literature disguised as a definition or a theorem or to hear about them and feel the need for more information If this

happens one should be able to find enough information in this Handbook to judge if it is worthwhile to pursue the quest In addition to the primary information given in the Handbook there are references to relevant articles books or lecture notes to help the reader An excellent index has been included which is extensive and not limited to definitions theorems etc The Handbook of Algebra will publish articles as they are received and thus the reader will find in this third volume articles from twelve different sections The advantages of this scheme are two fold accepted articles will be published quickly and the outline of the Handbook can be allowed to evolve as the various volumes are published A particularly important function of the Handbook is to provide professional mathematicians working in an area other than their own with sufficient information on the topic in question if and when it is needed Thorough and practical source of information Provides in depth coverage of new topics in algebra Includes references to relevant articles books and lecture notes

Information Processing and Management of Uncertainty in Knowledge-Based Systems Joao Paulo Carvalho, Marie-Jeanne Lesot, Uzay Kaymak, Susana Vieira, Bernadette Bouchon-Meunier, Ronald R. Yager, 2016-06-10 This two volume set CCIS 610 and 611 constitute the proceedings of the 16th International Conference on Information processing and Management of Uncertainty in Knowledge Based Systems IPMU 2016 held in Eindhoven The Netherlands in June 2016 The 127 revised full papers presented together with four invited talks were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on fuzzy measures and integrals uncertainty quantification with imprecise probability textual data processing belief functions theory and its applications graphical models fuzzy implications functions applications in medicine and bioinformatics real world applications soft computing for image processing clustering fuzzy logic formal concept analysis and rough sets graded and many valued modal logics imperfect databases multiple criteria decision methods argumentation and belief revision databases and information systems conceptual aspects of data aggregation and complex data fusion fuzzy sets and fuzzy logic decision support comparison measures machine learning social data processing temporal data processing aggregation

Data Privacy Management and Security Assurance Giovanni Livraga, Vicenç Torra, Alessandro Aldini, Fabio Martinelli, Neeraj Suri, 2016-09-21 This book constitutes the refereed proceedings of the 11th International Workshop on Data Privacy Management DPM 2016 and the 5th International Workshop on Quantitative Aspects in Security Assurance QASA 2016 held in Heraklion Crete Greece in September 2016 9 full papers and 4 short papers out of 24 submissions are included in the DPM 2016 Workshop They are organized around areas related to the management of privacy sensitive informations such as translation of high level business goals into system level privacy policies administration of sensitive identifiers data integration and privacy engineering The QASA workshop centeres around research topics with a particular emphasis on the techniques for service oriented architectures including aspects of dependability privacy risk and trust Three full papers and one short papers out of 8 submissions are included in QASA 2016

Combinatorics and Physics Kurusch Ebrahimi-Fard, 2011 This book is based on the mini workshop Renormalization held in December 2006 and the conference

Combinatorics and Physics held in March 2007 Both meetings took place at the Max Planck Institut fur Mathematik in Bonn Germany Research papers in the volume provide an overview of applications of combinatorics to various problems such as applications to Hopf algebras techniques to renormalization problems in quantum field theory as well as combinatorial problems appearing in the context of the numerical integration of dynamical systems in noncommutative geometry and in quantum gravity In addition it contains several introductory notes on renormalization Hopf algebras Wilsonian renormalization and motives

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

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