Jonathan S. Golan

Semirings and Affine Equations over Them: Theory and Applications

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Herbert Toth

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    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   , **ECAI 2006** G. Brewka,S. Coradeschi,A. Perini,2006-08-10 In the summer of 1956 John McCarthy organized the famous Dartmouth Conference which is now commonly viewed as the founding event for the field of Artificial Intelligence During the last 50 years AI has seen a tremendous development and is now a well established scientific discipline all over the world Also in Europe AI is in excellent shape as witnessed by the large number of high quality papers in this publication In comparison with ECAI 2004 there s a strong increase in the relative number of submissions from Distributed AI Agents and Cognitive Modelling Knowledge Representation Reasoning is traditionally strong in Europe and remains the biggest area of ECAI 06 One reason the figures for Case Based Reasoning are rather low is that much of the high quality work in this area has found its way into prestigious applications and is thus represented under the heading of PAIS **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 **International Conference on Oriental Thinking and Fuzzy Logic** Bing-Yuan Cao,Pei-Zhuang Wang,Zeng-Liang Liu,Yu-Bin Zhong,2016-06-18 This proceedings book presents edited results of the eighth International Conference on Fuzzy Information and Engineering ICFIE 2015 and on Oriental Thinking and Fuzzy Logic in August 17 20 2015 in Dalian China The book contains 65 high quality papers and is divided into six main parts Fuzzy Information Processing Fuzzy Engineering Internet and Big Data Applications Factor Space and Factorial Neural Networks Information Granulation and Granular Computing as well as Extenics and Innovation Methods **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 **Relational and Algebraic Methods in Computer Science** Wolfram Kahl,Michael Winter,José Oliveira,2015-09-24 This book constitutes the proceedings of the 15th International Conference on Relational and Algebraic Methods in Computer Science RAMiCS 2015 held in Braga Portugal in September October 2015 The 20 revised full papers and 3 invited papers presented were carefully selected from 25 submissions The papers deal with the theory of relation algebras and Kleene algebras process algebras fixed point calculi idempotent semirings quantales allegories and dynamic algebras cylindric

algebras and about their application in areas such as verification analysis and development of programs and algorithms algebraic approaches to logics of programs modal and dynamic logics interval and temporal logics **Generic Inference** Marc Pouly,Juerg Kohlas,2012-01-10 This book provides a rigorous algebraic study of the most popular inference formalisms with a special focus on their wide application area showing that all these tasks can be performed by a single generic inference algorithm Written by the leading international authority on the topic it includes an algebraic perspective study of the valuation algebra framework an algorithmic perspective study of the generic inference schemes and a practical perspective formalisms and applications Researchers in a number of fields including artificial intelligence operational research databases and other areas of computer science graduate students and professional programmers of inference methods will benefit from this work **Formal Aspects of Component Software** Olga Kouchnarenko,Ramtin Khosravi,2017-04-11 This book constitutes the thoroughly revised selected papers from the 13th International Conference on Formal Aspects of Component Software FACS 2016 held in Besan on France in October 2016 The 11 full papers presented together with one tool paper and 3 invited papers were carefully reviewed and selected from 27 submissions FACS 2016 is concerned with how formal methods can be used to make component based and service oriented software development succeed Formal methods have provided a foundation for component based software by successfully addressing challenging issues such as mathematical models for components composition and adaptation or rigorous approaches to verification deployment testing and certification **It's All About Coordination** Frank de Boer,Marcello Bonsangue,Jan Rutten,2018-05-25 This Festschrift volume has been published to celebrate the lifelong scientific achievements of Farhad Arbab on the occasion of his retirement from the Centre of Mathematics and Computer Science CWI Over the years Farhad Arbab has sucessfully been engaged in scientific explorations in various directions Software Composition Service Oriented Computing Component based Software Concurrency Theory Coordination Models and Languages Parallel and Distributed Computing Visual Programming Environments Constraints Logic and Object Oriented Programming Farhad Arbab has shaped the field of Coordination Models and Languages His insight that it is all about exeogeneous coordination gave rise to the striking elegance and beauty of Reo an exogenous coordination model based on a formal calculus of channel composition Reo has been extremely successful and is having a great impact in many of the areas mentioned above The present volume collects a number of papers by several of Farhad s close collaborators over the years **Relational and Algebraic Methods in Computer Science** Peter Höfner,Damien Pous,Georg Struth,2017-05-08 This book constitutes the proceedings of the 16th International Conference on Relational and Algebraic Methods in Computer Science RAMiCS 2017 held in Lyon France in May 2017 The 17 revised full papers and 2 invited papers presented together with 1 invited abstract were carefully selected from 28 submissions Topics covered range from mathematical foundations to applications as conceptual and methodological tools in computer science and beyond **Recent Trends in Algebraic Development Techniques** Andrea

Corradini,Ugo Montanari,2009-08-29 This book constitutes the thoroughly refereed post conference proceedings of the 19th International Workshop on Recent Trends in Algebraic Development Techniques WADT 2008 held in Pisa Italy on June 13 16 2008 The 18 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 33 presentations at the workshop The papers focus on the algebraic approaches to the specification and development of systems and address topics such as formal methods for system development specification languages and methods systems and techniques for reasoning about specifications specification development systems methods and techniques for concurrent distributed and mobile systems and algebraic and co algebraic foundations   Tropical and Idempotent Mathematics and Applications Grigoriĭ Lazarevich Litvinov,S. N. Sergeev,2014 This volume contains the proceedings of the International Workshop on Tropical and Idempotent Mathematics held at the Independent University of Moscow Russia from August 26 31 2012 The main purpose of the conference was to bring together and unite researchers and specialists in various areas of tropical and idempotent mathematics and applications This volume contains articles on algebraic foundations of tropical mathematics as well as articles on applications of tropical mathematics in various fields as diverse as economics electroenergetic networks chemical reactions representation theory and foundations of classical thermodynamics This volume is intended for graduate students and researchers interested in tropical and idempotent mathematics or in their applications in other areas of mathematics and in technical sciences   Non-diophantine Arithmetics In Mathematics, Physics And Psychology Mark Burgin,Marek Czachor,2020-11-04 For a long time all thought there was only one geometry Euclidean geometry Nevertheless in the 19th century many non Euclidean geometries were discovered It took almost two millennia to do this This was the major mathematical discovery and advancement of the 19th century which changed understanding of mathematics and the work of mathematicians providing innovative insights and tools for mathematical research and applications of mathematics A similar event happened in arithmetic in the 20th century Even longer than with geometry all thought there was only one conventional arithmetic of natural numbers the Diophantine arithmetic in which 2 2 4 and 1 1 2 It is natural to call the conventional arithmetic by the name Diophantine arithmetic due to the important contributions to arithmetic by Diophantus Nevertheless in the 20th century many non Diophantine arithmetics were discovered in some of which 2 2 5 or 1 1 3 It took more than two millennia to do this This discovery has even more implications than the discovery of new geometries because all people use arithmetic This book provides a detailed exposition of the theory of non Diophantine arithmetics and its various applications Reading this book the reader will see that on the one hand non Diophantine arithmetics continue the ancient tradition of operating with numbers while on the other hand they introduce extremely original and innovative ideas

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