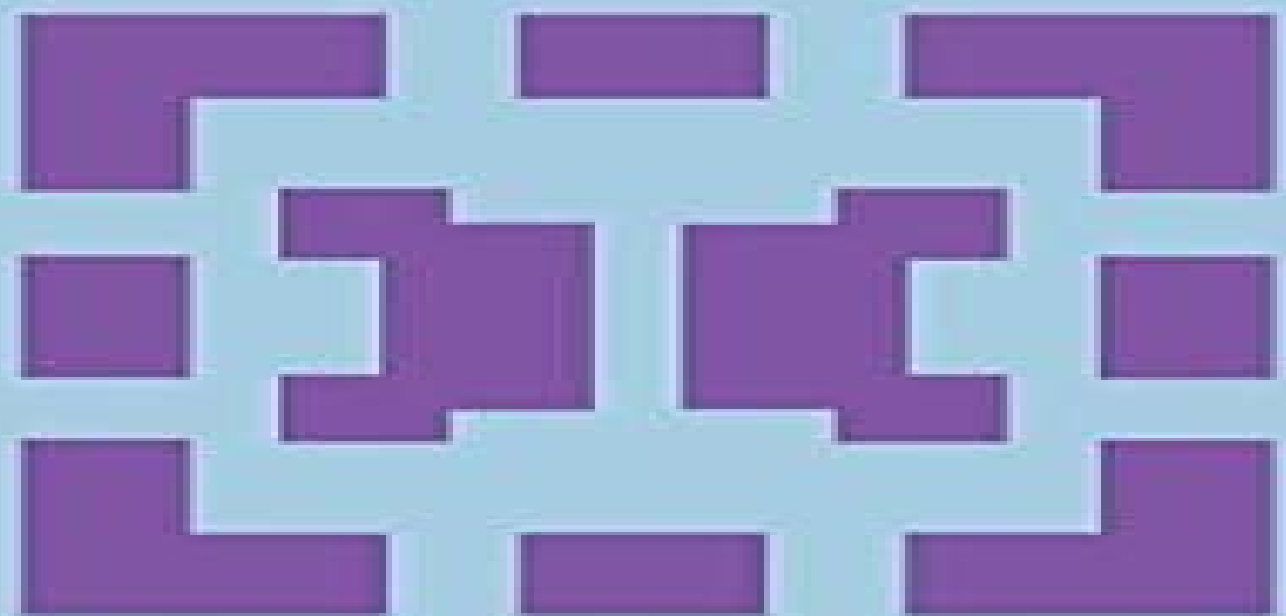


Mathematics and Its Applications

Jiří Adámek and Věra Trnková

Automata and Algebras in Categories



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Automata And Algebras In Categories

Jirí Adámek, Vera Trnková



Automata And Algebras In Categories:

Automata and Algebras in Categories Jirí Adámek, Vera Trnková, 1990-08-31 Monograph based very largely upon results original to the Czechoslovakian authors presents an abstract account of the theory of automata for sophisticated readers presumed to be already conversant in the language of category theory The seven chapters are punctuated at frequent intervals by example *Fundamental Structures of Algebra and Discrete Mathematics* Stephan Foldes, 2011-02-14 Introduces and clarifies the basic theories of 12 structural concepts offering a fundamental theory of groups rings and other algebraic structures Identifies essentials and describes interrelationships between particular theories Selected classical theorems and results relevant to current research are proved rigorously within the theory of each structure Throughout the text the reader is frequently prompted to perform integrated exercises of verification and to explore examples **Clifford Algebras and Spinor Structures** Rafal Ablamowicz, P. Lounesto, 2013-06-29 This volume is dedicated to the memory of Albert Crumeyrolle who died on June 17 1992 In organizing the volume we gave priority to articles summarizing Crumeyrolle's own work in differential geometry general relativity and spinors articles which give the reader an idea of the depth and breadth of Crumeyrolle's research interests and influence in the field articles of high scientific quality which would be of general interest In each of the areas to which Crumeyrolle made significant contribution Clifford and exterior algebras Weyl and pure spinors spin structures on manifolds principle of triality conformal geometry there has been substantial progress Our hope is that the volume conveys the originality of Crumeyrolle's own work the continuing vitality of the field he influenced and the enduring respect for and tribute to him and his accomplishments in the mathematical community It is our pleasure to thank Peter Morgan Artibano Micali Joseph Grifone Marie Crumeyrolle and Kluwer Academic Publishers for their help in preparing this volume *Applications of Lie Algebras to Hyperbolic and Stochastic Differential Equations* Constantin Vârsan, 2012-12-06 The main part of the book is based on a one semester graduate course for students in mathematics I have attempted to develop the theory of hyperbolic systems of differential equations in a systematic way making as much use as possible of gradient systems and their algebraic representation However despite the strong similarities between the development of ideas here and that found in a Lie algebras course this is not a book on Lie algebras The order of presentation has been determined mainly by taking into account that algebraic representation and homomorphism correspondence with a full rank Lie algebra are the basic tools which require a detailed presentation I am aware that the inclusion of the material on algebraic and homomorphism correspondence with a full rank Lie algebra is not standard in courses on the application of Lie algebras to hyperbolic equations I think it should be Moreover the Lie algebraic structure plays an important role in integral representation for solutions of nonlinear control systems and stochastic differential equations yielding results that look quite different in their original setting Finite dimensional nonlinear filters for stochastic differential equations and say decomposability of a nonlinear control system receive a common understanding in this

framework Algebra and Coalgebra in Computer Science Andrea Corradini, Bartek Klin, Corina Cîrstea, 2011-08-27 This book constitutes the refereed proceedings of the 4th International Conference on Algebra and Coalgebra in Computer Science CALCO 2011 held in Winchester UK in August September 2011 The 21 full papers presented together with 4 invited talks were carefully reviewed and selected from 41 submissions The papers report results of theoretical work on the mathematics of algebras and coalgebras the way these results can support methods and techniques for software development as well as experience with the transfer of the resulting technologies into industrial practice They cover topics in the fields of abstract models and logics specialized models and calculi algebraic and coalgebraic semantics and system specification and verification The book also includes 6 papers from the CALCO tools Workshop colocated with CALCO 2011 and dedicated to tools based on algebraic and or coalgebraic principles *Semigroups in Complete Lattices* Patrik Eklund, Javier Gutiérrez García, Ulrich Höhle, Jari Kortelainen, 2018-06-09 This monograph provides a modern introduction to the theory of quantales First coined by C J Mulvey in 1986 quantales have since developed into a significant topic at the crossroads of algebra and logic of notable interest to theoretical computer science This book recasts the subject within the powerful framework of categorical algebra showcasing its versatility through applications to C and MV algebras fuzzy sets and automata With exercises and historical remarks at the end of each chapter this self contained book provides readers with a valuable source of references and hints for future research This book will appeal to researchers across mathematics and computer science with an interest in category theory lattice theory and many valued logic **Jordan, Real and Lie Structures in Operator Algebras** Sh. Ayupov, Abdugafur Rakhimov, Shukhrat Usmanov, 2013-03-14 The theory of operator algebras acting on a Hilbert space was initiated in thirties by papers of Murray and von Neumann In these papers they have studied the structure of algebras which later were called von Neumann algebras or W algebras They are weakly closed complex algebras of operators on a Hilbert space At present the theory of von Neumann algebras is a deeply developed theory with various applications In the framework of von Neumann algebras theory the study of factors i e W algebras with trivial centres is very important since they are comparatively simple and investigation of general W algebras can be reduced to the case of factors Therefore the theory of factors is one of the main tools in the structure theory of von Neumann algebras In the middle of sixtieth Topping To 1 and Stormer S 2 have initiated the study of Jordan non associative and real analogues of von Neumann algebras so called JW algebras i e real linear spaces of self adjoint operators on a complex Hilbert space which contain the identity operator 1 closed with respect to the Jordan i e symmetrised product $xy + yx$ and closed in the weak operator topology The structure of these algebras has happened to be close to the structure of von Neumann algebras and it was possible to apply ideas and methods similar to von Neumann algebras theory in the study of JW algebras *Introduction to Coalgebra* Bart Jacobs, 2017 An accessible introduction to coalgebra with clear mathematical explanations and numerous examples and exercises **Lie Groups and Lie Algebras** B.P. Komrakov, I.S. Krasil'shchik, G.L. Litvinov, A.B.

Sossinsky,2012-12-06 This collection contains papers conceptually related to the classical ideas of Sophus Lie i e to Lie groups and Lie algebras Obviously it is impos sible to embrace all such topics in a book of reasonable size The contents of this one reflect the scientific interests of those authors whose activities to some extent at least are associated with the International Sophus Lie Center We have divided the book into five parts in accordance with the basic topics of the papers although it can be easily seen that some of them may be attributed to several parts simultaneously The first part quantum mathematics combines the papers related to the methods generated by the concepts of quantization and quantum group The second part is devoted to the theory of hypergroups and Lie hypergroups which is one of the most important generalizations of the classical concept of locally compact group and of Lie group A natural harmonic analysis arises on hypergroups while any abstract transformation of Fourier type is gen erated by some hypergroup commutative or not Part III contains papers on the geometry of homogeneous spaces Lie algebras and Lie superalgebras Classical problems of the representation theory for Lie groups as well as for topological groups and semigroups are discussed in the papers of Part IV Finally the last part of the collection relates to applications of the ideas of Sophus Lie to differential equations

Coalgebraic Methods in Computer Science Barbara König,Henning Urbat,2024-07-25 This book constitutes the post conference proceedings of the 17th International Workshop on Coalgebraic Methods in Computer Science CMCS 2024 colocated with ETAPS 2024 held in Luxembourg in April 2024 The 10 papers included in these proceedings were carefully reviewed and selected from 15 submissions The papers cover a wide range of topics on theory logics and applications of coalgebras

On Logical, Algebraic, and Probabilistic Aspects of Fuzzy Set Theory Susanne Saminger-Platz,Radko Mesiar,2016-01-11 The book is a collection of contributions by leading experts developed around traditional themes discussed at the annual Linz Seminars on Fuzzy Set Theory The different chapters have been written by former PhD students colleagues co authors and friends of Peter Klement a leading researcher and the organizer of the Linz Seminars on Fuzzy Set Theory The book also includes advanced findings on topics inspired by Klement s research activities concerning copulas measures and integrals as well as aggregation problems Some of the chapters reflect personal views and controversial aspects of traditional topics while others deal with deep mathematical theories such as the algebraic and logical foundations of fuzzy set theory and fuzzy logic Originally thought as an homage to Peter Klement the book also represents an advanced reference guide to the mathematical theories related to fuzzy logic and fuzzy set theory with the potential to stimulate important discussions on new research directions in the field

Differential and Difference Dimension Polynomials M.V. Kondratieva,1999 This book is the first monograph wholly devoted to the investigation of differential and difference dimension theory The differential dimension polynomial describes in exact terms the degree of freedom of a dynamic system as well as the number of arbitrary constants in the general solution of a system of algebraic differential equations Difference algebra arises from the study of algebraic difference equations and therefore bears a considerable resemblance to its differential counterpart Difference algebra was

developed in the same period as differential algebra and it has the same founder J Ritt It grew to a mathematical area with its own ideas and methods mainly due to the work of R Cohn who raised difference algebra to the same level as differential algebra The relatively new science of computer algebra has given strong impulses to the theory of dimension polynomials now that packages such as MAPLE enable the solution of many problems which cannot be solved otherwise Applications of differential and difference dimension theory can be found in many fields of mathematics as well as in theoretical physics system theory and other areas of science Audience This book will be of interest to researchers and graduate students whose work involves differential and difference equations algebra and number theory partial differential equations combinatorics and mathematical physics

Topics in Number Theory Scott D. Ahlgren, George E. Andrews, Ken Ono, 2013-12-01 From July 31 through August 3 1997 the Pennsylvania State University hosted the Topics in Number Theory Conference The conference was organized by Ken Ono and myself By writing the preface I am afforded the opportunity to express my gratitude to Ken for being the inspiring and driving force behind the whole conference Without his energy enthusiasm and skill the entire event would never have occurred We are extremely grateful to the sponsors of the conference The National Science Foundation The Penn State Conference Center and the Penn State Department of Mathematics The object in this conference was to provide a variety of presentations giving a current picture of recent significant work in number theory There were eight plenary lectures H Darmon McGill University Non vanishing of L functions and their derivatives modulo p A Granville University of Georgia Mean values of multiplicative functions C Pomerance University of Georgia Recent results in primality testing C Skinner Princeton University Deformations of Galois representations R Stanley Massachusetts Institute of Technology Some interesting hyperplane arrangements F Rodriguez Villegas Princeton University Modular Mahler measures T Wooley University of Michigan Diophantine problems in many variables The role of additive number theory D Zeilberger Temple University Reverse engineering in combinatorics and number theory The papers in this volume provide an accurate picture of many of the topics presented at the conference including contributions from four of the plenary lectures

Foundations of Software Science and Computation Structures Parosh Aziz Abdulla, Delia Kesner, 2025-04-30 This open access book constitutes the proceedings of the 28th International Conference on Foundations of Software Science and Computation Structures FOSSACS 2025 which took place in Hamilton Canada during May 2025 held as part of the International Joint Conferences on Theory and Practice of Software ETAPS 2025 The 19 papers included in these proceedings were carefully reviewed and selected from 58 submissions They focus on foundational research in software science on theories and methods to support the analysis integration synthesis transformation and verification of programs and software systems

Logical Foundations of Computer Science Sergei Artemov, Anil Nerode, 2009-02-11 This book constitutes the refereed proceedings of the International Symposium on Logical Foundations of Computer Science LFCS 2009 held in Deerfield Beach Florida USA in January 2008 The volume presents 31 revised refereed papers carefully selected by the

program committee All current aspects of logic in computer science are addressed including constructive mathematics and type theory logical foundations of programming logical aspects of computational complexity logic programming and constraints automated deduction and interactive theorem proving logical methods in protocol and program verification and in program specification and extraction domain theory logics logical foundations of database theory equational logic and term rewriting lambda and combinatory calculi categorical logic and topological semantics linear logic epistemic and temporal logics intelligent and multiple agent system logics logics of proof and justification nonmonotonic reasoning logic in game theory and social software logic of hybrid systems distributed system logics system design logics as well as other logics in computer science

Quaternions and Cayley Numbers J.P. Ward, 2012-12-06 In essence this text is written as a challenge to others to discover significant uses for Cayley number algebra in physics I freely admit that though the reading of some sections would benefit from previous experience of certain topics in physics particularly relativity and electromagnetism generally the mathematics is not sophisticated In fact the mathematically sophisticated reader may well find that in many places the rather deliberate progress too slow for their liking This text had its origin in a 90 minute lecture on complex numbers given by the author to prospective university students in 1994 In my attempt to develop a novel approach to the subject matter I looked at complex numbers from an entirely geometric perspective and no doubt in line with innumerable other mathematicians re traced steps first taken by Hamilton and others in the early years of the nineteenth century I even enquired into the possibility of using an alternative multiplication rule for complex numbers in which $\arg z_1 z_2 = \arg z_1 + \arg z_2$ other than the one which is normally accepted $\arg z_1 z_2 = \arg z_1 + \arg z_2$ Of course my alternative was rejected because it didn't lead to a product which had properties that we now accept as fundamental i e

Relational and Algebraic Methods in Computer Science Uli Fahrenberg, Wesley Fussner, Roland Glück, 2024-08-11 This book constitutes the refereed proceedings of the 21st International Conference RAMiCS 2024 held in Prague Czech Republic during August 19-22 2024 The 15 full papers presented in this book were carefully reviewed and selected from 21 submissions They focus on mathematical foundations to applications as conceptual and methodological tools in computer science and beyond

A Study of Braids Kunio Murasugi, B. Kurpita, 2012-12-06 In Chapter 6 we describe the concept of braid equivalence from the topological point of view This will lead us to a new concept braid homotopy that is discussed fully in the next chapter As just mentioned in Chapter 7 we shall discuss the difference between braid equivalence and braid homotopy Also in this chapter we define a homotopy braid invariant that turns out to be the so called Milnor number Chapter 8 is a quick review of knot theory including Alexander's theorem While Chapter 9 is devoted to Markov's theorem which allows the application of this theory to other fields This was one of the motivations Artin had in mind when he began studying braid theory In Chapter 10 we discuss the primary applications of braid theory to knot theory including the introduction of the most important invariants of knot theory the Alexander polynomial and the Jones polynomial In Chapter 11 motivated by Dirac's string problem the

ordinary braid group is generalized to the braid groups of various surfaces We discuss these groups from an intuitive and diagrammatic point of view In the last short chapter 12 we present without proof one theorem due to Gorin and Lin GoL that is a surprising application of braid theory to the theory of algebraic equations

Algebra and Coalgebra in Computer Science José Luis Fiadeiro, Neil Harman, Markus Roggenbach, Jan Rutten, 2005-08-31 In April 2004 after one year of intense debate CMCS the International Workshop on Coalgebraic Methods in Computer Science and WADT the Workshop on Algebraic Development Techniques decided to join their forces and reputations into a new high level biennial conference CALCO the Conference on Algebra and Coalgebra in Computer Science was created to bring together researchers and practitioners to exchange new results related to foundational aspects and both traditional and emerging uses of algebras and coalgebras in computer science A steering committee was put together by merging those of CMCS and WADT Jiri Adamek Ataru Nagawa Michel Bidoit José Fiadeiro co chair Hans Peter Gumm Bart Jacobs Hans Jürg Kreowski Ugo Montanari Larry Moss Peter Mosses Fernando Orejas Francesco Parisi Presicce John Power Horst Reichel Markus Roggenbach Jan Rutten co chair and Andrzej Tarlecki CALCO 2005 was the first instance of this new conference The interest that it generated in the scientific community suggests that it will not be the last Indeed it attracted as many as 62 submissions covering a wide range of topics roughly divided into two areas Algebras and Coalgebras as Mathematical Objects Automata and languages categorical semantics hybrid probabilistic and timed systems inductive and co inductive methods modal logics relational systems and term rewriting

Semigroups and Automata Uno Kaljulaid, 2006 This volume provides a selection of previously published papers and manuscripts of Uno Kaljulaid an eminent Estonian algebraist of the last century The central part of the book is the English translation of Kaljulaid's 1979 Candidate thesis which originally was typewritten in Russian and manufactured in not so many copies The thesis is devoted to representation theory in the spirit of his thesis advisor B I Plotkin representations of semigroups and algebras especially extension to this situation and application of the notion of triangular product of representations for groups introduced by Plotkin Through representation theory Kaljulaid became also interested in automata theory which at a later phase became his main area of interest Another field of research concerns combinatorics Besides being an outstanding and most dedicated mathematician Uno Kaljulaid was also very much interested in the history of mathematics In particular he took a vivid interest in the life and work of the great 19th century Dorpat Tartu algebraist Th Molien Kaljulaid was also very interested in teaching and exposition or popularization of mathematics Some of his more popular scientific papers were published in an Estonian language journal *Matemaatika ja Kaasaeg* Mathematics and Our Age Among them there is a whole series of papers about algebraic matters culminating in a brilliant elementary although partly rather philosophical essay devoted to Galois theory Another such series is his excellent essay of Diophantine Geometry in various installments followed by his loge to another of his teachers Yu I Manin It is believed that the inclusion of these papers here will make it more interesting for beginners and perhaps even contribute to attracting young people to mathematics

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