



Alban Quadrat
Eva Zerz *Editors*

Algebraic and Symbolic Computation Methods in Dynamical Systems

Symbolic Algebraic Computation

Wolfgang Guggemos



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Computation Systems Alfonso Miola,1993-09-02 This volume constitutes the proceedings of the International Symposium on Design and Implementation of Symbolic Computation Systems DISCO 93 held in Gmunden Austria in September 1993 The growing importance of systems for symbolic computation has greatly influenced the decision of organizing this third conference in the series DISCO 93 focuses mainly on the most innovative methodological and technological aspects of the design and implementation of hardware and software systems for symbolic and algebraic computation automated reasoning geometric modeling and computation and automatic programming The general objective of DISCO 93 is to present an up to date view of the field and to serve as a forum insymbolic computation for the scientific exchange among academic industrial and user communities Besides invited talks by Buchberger Monagan Omodeo and Hong the volume contains 28 contributions carefully selected by a highly competent international program committee from a total of 56 submissions **Computer**

Algebra and Symbolic Computation Joel S. Cohen,2002-07-19 This book provides a systematic approach for the algorithmic formulation and implementation of mathematical operations in computer algebra programming languages The viewpoint is that mathematical expressions represented by expression trees are the data objects of computer algebra programs and by using a few primitive operations that analyze and Design and Implementation of Symbolic Computation Systems John Fitch,1993-09-02 DISCO 92 was held on the Newton Park campus of Bath College of Higher Education England April 13 15 1992 Beside the formal lectures dedicated to design and implementation issues of computer algebra there were several software demonstrations and an opportunity for system designers to compare systems This volume presents the proceedings of the conference It contains 18 papers on a variety of design and implementation issues One general theme which clearly emerges is the need for interconnections between systems as no one systems incorporates all the facilities that users want Various effortsare being made to design such links but generally in limited contexts suchas the Maple project or the Posso project *Proceedings of the 2022 International Symposium on Symbolic and Algebraic Computation* Marc

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Applying the ideas introduced in Computer Algebra and Symbolic Computation Elementary Algorithms this book explores the application of algorithms to such methods as automatic simplification polynomial decomposition and polyno Proceedings of the 39th International Symposium on Symbolic and Algebraic Computation Kosaku Nagasaka,2014 Proceedings of the 1994 Acm International Symposium on Symbolic and Algebraic Computation Issac,1994-06 *Algebra for Symbolic Computation* Antonio Machi,2012-07-21 This book deals with several topics in algebra useful for computer science applications and the symbolic treatment of algebraic problems pointing out and discussing their algorithmic nature The topics covered range from classical results such as the Euclidean algorithm the Chinese remainder theorem and polynomial interpolation to p adic expansions of rational and algebraic numbers and rational functions to reach the problem of the polynomial factorisation especially via Berlekamp s method and the discrete Fourier transform Basic algebra concepts are revised in a form suited for implementation on a computer algebra system *Computerized Symbolic Manipulation in Mechanics* Edwin Kreuzer,2014-05-04 The aim of this book is to present important software tools basic concepts methods and highly sophisticated applications of computerized symbolic manipulation to mechanics problems An overview about general purpose symbolic software is followed by general guidelines how to develop and implement high quality computer algebra code The theoretical background including modeling techniques for mechanical systems is provided which allows for the computer aided generation of the symbolic equation of motion for multibody systems It is shown how the governing equations for different types of problems in structural mechanics can be automatically derived and how to implement finite element techniques via computer algebra software Perturbation methods as a very powerful approach for nonlinear problems are discussed in detail and are demonstrated for a number of applications The applications covered in this book represent some of the most advanced topics in the rapidly growing field of research on symbolic computation ISSAC 2001 Bernard Mourrain,2001 Symbolic and Algebraic Computation E. W. Ng,2014-01-15 **Symbolic and Numerical Computation for Artificial Intelligence** Bruce R. Donald,Deepak Kapur,Joseph L. Mundy,1992 Over the last decade there has been considerable progress in investigating methods of symbolic mathematics in many application areas of computer science and artificial intelligence such as engineering design solid and geometric modelling robotics and motion planning and machine vision This research has produced few applications within engineering and robotics because of the combinatorial cost of symbolic techniques Therefore it is essential to investigate approaches for systematic integration of symbolic with numerical techniques which are efficient for handling the huge amount of data that arises in practical applications while at the same time maintain a logically consistent solution framework Symbolic and Numerical Computation for Artificial Intelligence gives an overview of applications in machine vision robotics and engineering design where there is a need for integrating symbolic and numerical methods It also illustrates the case for an integrated symbolic and numerical environment to support the needs of these applications This book will be essential reading for researchers in applied mathematics symbolic and algebraic

manipulation and applied artificial intell

Algebraic and Symbolic Computation Methods in Dynamical Systems

Alban Quadrat,Eva Zerz,2020-05-30 This book aims at reviewing recent progress in the direction of algebraic and symbolic computation methods for functional systems e g ODE systems differential time delay equations difference equations and integro differential equations In the nineties modern algebraic theories were introduced in mathematical systems theory and in control theory Combined with real algebraic geometry which was previously introduced in control theory the past years have seen a flourishing development of algebraic methods in control theory One of the strengths of algebraic methods lies in their close connections to computations The use of the above mentioned algebraic theories in control theory has been an important source of motivation to develop effective versions of these theories when possible With the development of computer algebra and computer algebra systems symbolic methods for control theory have been developed over the past years The goal of this book is to propose a partial state of the art in this direction To make recent results more easily accessible to a large audience the chapters include materials which survey the main mathematical methods and results and which are illustrated with explicit examples

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