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CASC'99 Victor G. Ganzha, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2012-12-06 The development of powerful computer algebra systems has considerably extended the scope of problems of scientific computing which can now be solved successfully with the aid of computers However as the field of applications of computer algebra in scientific computing becomes broader and more complex there is a danger of separation between theory systems and applications For this reason we felt the need to bring together the researchers who now apply the tools of computer algebra for the solution of problems in scientific computing in order to foster new and closer interactions CASC 99 is the second conference devoted to applications of computer algebra in scientific computing The first conference in this sequence CASC 98 was held 20-24 April 1998 in St

Petersburg Russia This volume contains revised versions of the papers submitted by the participants and accepted by the program committee after a thorough reviewing process The collection of papers included in the proceedings covers various topics of computer algebra methods algorithms and software applied to scientific computing symbolic numeric analysis and solving differential equations efficient computations with polynomials groups matrices and other related objects special purpose programming environments application to physics mechanics optics and to other areas In particular a significant group of papers deals with applications of computer algebra methods for the solution of current problems in group theory which mostly arise in mathematical physics

Computer Algebra in Scientific Computing Vladimir P. Gerdt, Wolfram Koepf, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2010-09-07 The CASC Workshops are traditionally held in turn in the Commonwealth of Independent States CIS and outside CIS Germany in particular but at times also other countries with lively CA communities The previous CASC Workshop was held in Japan and the 12th workshop was held for the first time in Armenia which is one of the CIS republics It should be noted that more than 35 institutes and scientific centers function within the National Academy of Sciences of Armenia further details concerning the structure of the academy can be found <http://www.sci.am> These institutions are concerned in particular with problems in such branches of natural science as mathematics informatics physics astronomy biochemistry etc It follows from the talks presented at the previous CASC workshops that the methods and systems of computer algebra may be applied successfully in all the above listed branches of natural sciences Therefore the organizers of the 12th CASC Workshop hope that the present workshop will help the Armenian scientists to become even more familiar with the capabilities of advanced computer algebra methods and systems and to get in touch with specialists in computer algebra from other countries The 11 earlier CASC conferences CASC 1998 CASC 1999 CASC 2000 CASC 2001 CASC 2002 CASC 2003 CASC 2004 CASC 2005 CASC 2006 CASC 2007 and CASC 2009 were held respectively in St Petersburg Russia Munich Germany Samarkand Uzbekistan Konstanz Germany Yalta Ukraine Passau Germany St

Computer Algebra in Scientific Computing François Boulrier, Chenqi Mou, Timur M. Sadykov, Evgenii V. Vorozhtsov, 2025-12-02 This book constitutes the refereed proceedings of the 27th International Workshop on Computer Algebra in Scientific Computing CASC 2025 which took place in Dubai United Arab Emirates during November 24-28 2025 The 22 full papers and included in this book were carefully reviewed and selected from 36 submissions They focus on all aspects of computer algebra symbolic computation scientific computing and related fields alongside the country's strategic focus on advancing research and establishing itself as a regional hub and global leader in scientific computing

Computer Algebra in Scientific Computing V.G. Ganzha, E.W. Mayr, E.V. Vorozhtsov, 2007-09-12 This book constitutes the refereed proceedings of the 10th International Workshop on Computer Algebra in Scientific Computing CASC 2007 held in Bonn Germany in September 2007 The volume is dedicated to Professor Vladimir P. Gerdt on the occasion of his 60th birthday The 35 revised full papers presented were carefully reviewed and selected from numerous submissions for inclusion in the book

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mathematical models in biology and in mathematical physics

Design and Implementation of Symbolic 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 in symbolic 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.

NASA Tech Briefs

, 1992

Frontiers of Combining Systems Helene Kirchner, Christophe Ringeissen, 2006-12-30 This book constitutes the refereed proceedings of the Third International Workshop on Frontiers of Combining Systems FroCoS 2000 held in Nancy France in March 2000. The 14 revised full papers presented together with four invited papers were carefully reviewed and selected from a total of 31 submissions. Among the topics covered are constraint processing, interval narrowing, rewriting systems, proof planning, sequent calculus, type systems, model checking, theorem proving, declarative programming, logic programming and equational theories.

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