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## **Automated Deduction in Equational Logic and Cubic Curves**



**Springer**

# Automated Deduction In Equational Logic And Cubic Curves

**William McCune, R. Padmanabhan**



## **Automated Deduction In Equational Logic And Cubic Curves:**

Automated Deduction in Equational Logic and Cubic Curves William McCune,R. Padmanabhan,1996-06-12 This monograph is the result of the cooperation of a mathematician working in universal algebra and geometry and a computer scientist working in automated deduction who succeeded in employing the theorem prover Otter for proving first order theorems from mathematics and then intensified their joint effort Mathematicians will find many new results from equational logic universal algebra and algebraic geometry and benefit from the state of the art outline of the capabilities of automated deduction techniques Computer scientists will find a large and varied source of theorems and problems that will be useful in designing and evaluation automated theorem proving systems and strategies *Automated Deduction in Equational Logic and Cubic Curves* William McCune,R. Padmanabhan,2014-01-15 *Computational Logic* Dov M. Gabbay,Jörg H. Siekmann,John Woods,2014-12-09 Handbook of the History of Logic brings to the development of logic the best in modern techniques of historical and interpretative scholarship Computational logic was born in the twentieth century and evolved in close symbiosis with the advent of the first electronic computers and the growing importance of computer science informatics and artificial intelligence With more than ten thousand people working in research and development of logic and logic related methods with several dozen international conferences and several times as many workshops addressing the growing richness and diversity of the field and with the foundational role and importance these methods now assume in mathematics computer science artificial intelligence cognitive science linguistics law and many engineering fields where logic related techniques are used inter alia to state and settle correctness issues the field has diversified in ways that even the pure logicians working in the early decades of the twentieth century could have hardly anticipated Logical calculi which capture an important aspect of human thought are now amenable to investigation with mathematical rigour and computational support and fertilized the early dreams of mechanised reasoning Calculemus The Dartmouth Conference in 1956 generally considered as the birthplace of artificial intelligence raised explicitly the hopes for the new possibilities that the advent of electronic computing machinery offered logical statements could now be executed on a machine with all the far reaching consequences that ultimately led to logic programming deduction systems for mathematics and engineering logical design and verification of computer software and hardware deductive databases and software synthesis as well as logical techniques for analysis in the field of mechanical engineering This volume covers some of the main subareas of computational logic and its applications Chapters by leading authorities in the field Provides a forum where philosophers and scientists interact Comprehensive reference source on the history of logic *Automated Reasoning* Christoph Benz Müller,Marijn J.H. Heule,Renate A. Schmidt,2024-06-30 This two volume set of LNAI 14739 14740 constitute the proceedings of the 12th International Joint Conference on Automated Reasoning IJCAR 2024 held in Nancy France during July 3 6 2024 The 39 full research papers and 6 short papers presented in this book were carefully reviewed and selected

from 115 submissions The papers focus on the following topics theorem proving and tools SAT SMT and Quantifier Elimination Intuitionistic Logics and Modal Logics Calculi Proof Theory and Decision Procedures and Unification Rewriting and Computational Models This book is open access *Automatic Ambiguity Resolution in Natural Language Processing* Alexander Franz,1996-11-13 This is an exciting time for Artificial Intelligence and for Natural Language Processing in particular Over the last five years or so a newly revived spirit has gained prominence that promises to revitalize the whole field the spirit of empiricism This book introduces a new approach to the important NLP issue of automatic ambiguity resolution based on statistical models of text This approach is compared with previous work and proved to yield higher accuracy for natural language analysis An effective implementation strategy is also described which is directly useful for natural language analysis The book is noteworthy for demonstrating a new empirical approach to NLP it is essential reading for researchers in natural language processing or computational linguistics *Featured Reviews in Mathematical Reviews 1997-1999* Donald G. Babbitt,Jane E. Kister,2000-05-05 This second volume of Featured Reviews makes available special detailed reviews of some of the most important mathematical articles and books published from 1997 through 1999 Also included are excellent reviews of several classic books and articles published prior to 1970 Among those reviews for example are the following Homological Algebra by Henri Cartan and Samuel Eilenberg reviewed by G Hochschild Faisceaux algebriques coherents by Jean Pierre Serre reviewed by C Chevalley and On the Theory of General Partial Differential Operators by Lars Hormander reviewed by J L Lions In particular those seeking information on current developments outside their own area of expertise will find the volume very useful By identifying some of the best publications papers and books that have had or are expected to have a significant impact in applied and pure mathematics this volume will serve as a comprehensive guide to important new research across all fields covered by MR **Case-Based Reasoning Research and Development** David B. Leake,Enric Plaza,1997-07-09 This book constitutes the refereed proceedings of the Second International Conference on Case Based Reasoning ICCBR 97 held in Providence RI USA in July 1997 The volume presents 39 revised full scientific papers selected from a total of 102 submissions also included are 20 revised application papers Among the topics covered are representation and formalization indexing and retrieval adaptation learning integrated approaches creative reasoning CBR and uncertainty This collection of papers is a comprehensive documentation of the state of the art in CBR research and development **Automated Deduction, CADE ...** ,1997 [Automated Deduction - CADE-14](#) William McCune,1997-06-18 This book constitutes the strictly refereed proceedings of the 14th International Conference on Automated Deduction CADE 14 held in Townsville North Queensland Australia in July 1997 The volume presents 25 revised full papers selected from a total of 87 submissions also included are 17 system descriptions and two invited contributions The papers cover a wide range of current issues in the area including resolution term rewriting unification theory induction high order logics nonstandard logics AI methods and applications to software verification

geometry and social science     *Alan Turing: Life and Legacy of a Great Thinker* Christof Teuscher, 2013-06-29 Alan Turing's fundamental contributions to computing led to the development of modern computing technology and his work continues to inspire researchers in computing science and beyond This book is the definitive collection of commemorative essays and the distinguished contributors have expertise in such diverse fields as artificial intelligence natural computing mathematics physics cryptology cognitive studies philosophy and anthropology The volume spans the entire rich spectrum of Turing's life research work and legacy New light is shed on the future of computing science by visionary Ray Kurzweil Notable contributions come from the philosopher Daniel Dennett the Turing biographer Andrew Hodges and the distinguished logician Martin Davis who provides a first critical essay on an emerging and controversial field termed hypercomputation A special feature of the book is the play by Valeria Patera which tackles the scandal surrounding the last apple and presents as an enigma the life death and destiny of the man who did so much to decipher the Enigma code during the Second World War Other chapters are modern reappraisals of Turing's work on computability and deal with the major philosophical questions raised by the Turing Test while the book also contains essays addressing his less well known ideas on Fibonacci phyllotaxis and connectionism     **Fuzzy Logic, Neural Networks, and Evolutionary Computation** Takeshi Furuhashi, Yoshiki Uchikawa, 1996-11-06 This book includes a selection of twelve carefully revised papers chosen from the papers accepted for presentation at the 4th IEEE Nagoya University World Wisepersons Workshop held in Nagoya in November 1995 The combining of the technologies of fuzzy logic neural networks and evolutionary computation is expected to open up a new paradigm of machine learning for the realization of human like information generating systems The excellent papers presented are organized in sections on fuzzy and evolutionary computation fuzzy and learning automata fuzzy and neural networks genetic algorithms and CAM brain     *Practice and Theory of Automated Timetabling*, 1996     *Automated Reasoning with Analytic Tableaux and Related Methods*, 1997     **Field-programmable Logic and Applications**, 1996

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*Logic for Mathematics and Computer Science* Stanley Burris, 1998 This text is intended for one semester courses in Logic it can also be applied to a two semester course in either Computer Science or Mathematics Departments Unlike other texts on mathematical logic that are either too advanced too sparse in examples or exercises too traditional in coverage or too philosophical in approach this text provides an elementary hands on presentation of important mathematical logic topics new and old that is readily accessible and relevant to all students of the mathematical sciences not just those in traditional pure mathematics

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