

Texts and Monographs in
Symbolic Computation



Wen-tsün Wu

Mechanical Theorem Proving in Geometries



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Mechanical Theorem Proving In Geometries

**University of Texas at Austin. Dept. of
Computer Sciences, S.-C. Chou, X.-S.
Gao**

Mechanical Theorem Proving In Geometries:

Mechanical Theorem Proving in Geometries Wen-tsün Wu, 2012-12-06 There seems to be no doubt that geometry originates from such practical activities as weather observation and terrain survey But there are different manners methods and ways to raise the various experiences to the level of theory so that they finally constitute a science F Engels said The objective of mathematics is the study of space forms and quantitative relations of the real world During the time of the ancient Greeks there were two different methods dealing with geometry one represented by the Euclid's Elements purely pursued the logical relations among geometric entities excluding completely the quantitative relations as to establish the axiom system of geometry This method has become a model of deduction methods in mathematics The other represented by the relevant work of Archimedes focused on the study of quantitative relations of geometric objects as well as their measures such as the ratio of the circumference of a circle to its diameter and the area of a spherical surface and of a parabolic sector Though these approaches vary in style have their own features and reflect different viewpoints in the development of geometry both have made great contributions to the development of mathematics The development of geometry in China was all along concerned with quantitative relations

Mechanical Geometry Theorem Proving
Shang-Ching Chou, 2001-11-30 Approach your problems from the right end It isn't that they can't see the solution It is and begin with the answers Then one day that they can't see the problem perhaps you will find the final question G K Chesterton The Scandal of Father The Hermit Clad in Crane Feathers in R Brown The point of a Pin van Gulik's The Chinese Maze Murders Growing specialization and diversification have brought a host of monographs and textbooks on increasingly specialized topics However the tree of knowledge of mathematics and related fields does not grow only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially in regional and theoretical economics algebraic geometry interacts with physics the Minkowski lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electrical engineering can use Stein spaces And in addition to this there are such new emerging subdisciplines as experimental mathematics CFD completely integrable systems chaos synergetics and large scale order which are almost impossible to fit into the existing classification schemes They draw upon widely different sections of mathematics

Mechanical Theorem Proving in Geometries Wen-tsun Wu, X. Jin, D. Wang, 1994-04-14 *Machine Proofs in Geometry* Shang-Ching Chou, Xiao-Shan Gao, Jingzhong Zhang, 1994 This book reports recent major advances in automated reasoning in geometry The authors have developed a method and implemented a computer program which for the first time produces short and readable proofs for hundreds of geometry theorems The book begins with chapters introducing the

method at an elementary level which are accessible to high school students latter chapters concentrate on the main theme the algorithms and computer implementation of the method This book brings researchers in artificial intelligence computer science and mathematics to a new research frontier of automated geometry reasoning In addition it can be used as a supplementary geometry textbook for students teachers and geometers By presenting a systematic way of proving geometry theorems it makes the learning and teaching of geometry easier and may change the way of geometry education

Mechanical Theorem Proving in Riemann Geometry University of Texas at Austin. Dept. of Computer Sciences,S.-C. Chou,X.-S. Gao,1990 Abstract This paper studies the mechanical theorem proving in Riemann geometry using algebraic methods We establish a theorem which can reduce a geometry statement in Riemann geometry to several substatements which are much easier to prove For a class of constructive geometry statements we present a method to generate sufficient non degenerate conditions in geometric form mechanically We also prove that an irreducible constructive statement is generally true if and only if it is universally true under the non degenerate conditions generated by our method More than 20 theorems other than those in projective geometry have been proved by our program **Learning and Geometry:**

Computational Approaches David Kueker,Carl Smith,2012-12-06 The field of computational learning theory arose out of the desire to formally understand the process of learning As potential applications to artificial intelligence became apparent the new field grew rapidly The learning of geometric objects became a natural area of study The possibility of using learning techniques to compensate for unsolvability provided an attraction for individuals with an immediate need to solve such difficult problems Researchers at the Center for Night Vision were interested in solving the problem of interpreting data produced by a variety of sensors Current vision techniques which have a strong geometric component can be used to extract features However these techniques fall short of useful recognition of the sensed objects One potential solution is to incorporate learning techniques into the geometric manipulation of sensor data As a first step toward realizing such a solution the Systems Research Center at the University of Maryland in conjunction with the Center for Night Vision hosted a Workshop on Learning and Geometry in January of 1991 Scholars in both fields came together to learn about each others field and to look for common ground with the ultimate goal of providing a new model of learning from geometrical examples that would be useful in computer vision The papers in the volume are a partial record of that meeting **Handbook of**

Automated Reasoning Alan J.A. Robinson,Andrei Voronkov,2001-06-22 Handbook of Automated Reasoning **Mechanical Theorem Proving in Differential Geometry. I. Space Curves** University of Texas at Austin. Department of Computer Sciences,S.-C. Chou,X.-S. Gao,1990 *Automated Deduction,CADE-12*. Alan Bundy,1994-06-08 This volume contains the reviewed papers presented at the 12th International Conference on Automated Deduction CADE 12 held at Nancy France in June July 1994 The 67 papers presented were selected from 177 submissions and document many of the most important research results in automated deduction since CADE 11 was held in June 1992 The volume is organized in chapters on

heuristics resolution systems induction controlling resolutions ATP problems unification LP applications special purpose provers rewrite rule termination ATP efficiency AC unification higher order theorem proving natural systems problem sets and system descriptions

Mechanical Theorem Proving in Projective Geometry Jürgen Richter-Gebert, 1993 Abstract We present an algorithm that is able to confirm projective incidence statements by carrying out calculations in the ring of all formal determinants brackets of a configuration We will describe an implementation of this prover and present a series of examples treated by the prover including Pappos and Desargues Theorems the Sixteen Point Theorem Saam's Theorem the Bundle Condition the uniqueness of a harmonic Point and Pascal's Theorem *Methods and examples in mechanical geometry theorem proving* Shang-ching Chou, 1986 [Automated Deduction in Geometry](#), 2002 **Mechanical Geometry Theorem Proving Via Groebner Bases** Wu Jinzhao, 1996 *Issues in Robotics and Nonlinear Geometry* Franco P. Preparata, Christoph M. Hoffmann, 1992 Very Good No Highlights or Markup all pages are intact **Geometric Reasoning** Deepak Kapur, Joseph L. Mundy, 1989 Geometry is at the core of understanding and reasoning about the form of physical objects and spatial relations which are now recognized to be crucial to many applications in artificial intelligence The 20 contributions in this book discuss research in geometric reasoning and its applications to robot path planning vision and solid modeling During the 1950s when the field of artificial intelligence was emerging there were significant attempts to develop computer programs to mechanically perform geometric reasoning This research activity soon stagnated because the classical AI approaches of rule based inference and heuristic search failed to produce impressive geometric reasoning ability The extensive research reported in this book along with supplementary review articles reflects a renaissance of interest in recent developments in algebraic approaches to geometric reasoning that can be used to automatically prove many difficult plane geometry theorems in a few seconds on a computer Deepak Kapur is Professor in the Department of Computer Science at the State University of New York Albany Joseph L Mundy is a Coolidge Fellow at the Research and Development Center at General Electric Geometric Reasoning is included in the series Special Issues from Artificial Intelligence An International Journal A Bradford Book *Discrete and Computational Geometry* Jacob E. Goodman, Richard D. Pollack, William L. Steiger, 1991 **Chinese Mathematics Into the 21st Century** Wen-tsün Wu, Minde Cheng, 1991 [Mathematics Mechanization and Applications](#) Xiao-Shan Gao, Dongming Wang, 2000-07-25 Mathematics Mechanization and Applications provides surveys for major research developments on mechanizing algebraic equations solving and geometric theorem proving with diverse applications accomplished in Wu's extended Chinese group The book addresses the frontiers of research with new and original ideas and results includes sophisticated and successful applications to scientific and engineering problems covers polynomial system solving geometric reasoning computer algebra and mathematical software is comprehensive and focused and easy to read with a uniform presentation contains an extensive bibliography of high value for reference to western readers This book is of interest to researchers software developers and graduate students in symbolic

and algebraic computation automated theorem proving algorithmic mathematics and computer aided mathematical problem solving It is relevant for researchers and university teachers in computer aided instruction and education and for engineers and practitioners in mechanics computer aided geometric design geometric modelling and robotics People in many other related areas from pure mathematics to computer aided design particularly those who know of the Wu method but have little knowledge of it or the work that has arisen around it will also find the book good reading

Automated Deduction, CADE-11 Deepak Kapur, 1992 This volume contains the papers presented at the Eleventh International Conference on Automated Deduction CADE 11 held in Saratoga Springs NY in June 1992 A total of 136 papers were submitted for presentation by researchers from nearly 20 countries Papers covered many topics including resolution term rewriting natural deduction theorem proving in particular in algebra and geometry parallel theorem provers unification theory constraint solving logic programming verification multivalued temporal and nonclassical logics non monotonic reasoning planning proof theory higher order logics and inductive theorem proving Each submission was reviewed by at least three program committee members and 46 papers were selected for presentation and publication This volume also contains short descriptions of 23 implementations of automated deduction systems The volume opens with a keynote address by Larry Wos winner of the first Herbrand Award for Distinguished Contributions to Automated Reasoning PUBLISHER S WEBSITE

The Mathematical Revolution Inspired by Computing Jeffrey Johnson, Martin Loomes, 1991 The impact that computers has had on mathematics and mathematicians is profound This volume presents a survey of the many ways in which this influence has been felt and the implications these have for the future development of mathematics Individual chapters cover topics as diverse as automated theorem proving computational algebra word processing algorithms the Z specification language for computer systems the use of types in computing neural networks and dynamical systems All the contributors are experts in their respective fields and as a result not only does the volume provide insights into how computers are used in mathematics but also perhaps more significantly how the advent of computers has changed both the way mathematicians work and the nature of the problems that they study

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