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Jacques Fleuriot

A Combination of Geometry Theorem Proving and Nonstandard Analysis with Application to Newton's Principia



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Jacques Fleuriot



Combination Of Geometry Theorem Proving And Nonstandard Analysis With Application To Newton's Principia:

A Combination of Geometry Theorem Proving and Nonstandard Analysis with Application to Newton's Principia Jacques Fleuriot, 2012-09-13 Sir Isaac Newton's philosophi Naturalis Principia Mathematica the Principia contains a prose style mixture of geometric and limit reasoning that has often been viewed as logically vague In A Combination of Geometry Theorem Proving and Nonstandard Analysis Jacques Fleuriot presents a formalization of Lemmas and Propositions from the Principia using a combination of methods from geometry and nonstandard analysis The mechanization of the procedures which respects much of Newton's original reasoning is developed within the theorem prover Isabelle The application of this framework to the mechanization of elementary real analysis using nonstandard techniques is also discussed

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A Combination of Geometry Theorem Proving and Nonstandard Analysis, with Application to Newton's Principia Jacques D. Fleuriot, 1999 Abstract Sir Isaac Newton's Philosophi Naturalis Principia Mathematica the Principia was first published in 1687 and set much of the foundations that led to profound changes in modern science Despite the influence of the work the elegance of the geometrical techniques used by Newton is little known since the demonstrations of most of the theorems set out in it are usually done using calculus Newton's reasoning also goes beyond the traditional boundaries of Euclidean geometry with the presence of both motion and infinitesimals This thesis describes the mechanization of Lemmas and Propositions from the Principia using formal tools developed in the generic theorem prover Isabelle We discuss the formalization of a geometry theory based on existing methods from automated geometry theorem proving The theory contains extra geometric notions including definitions of the ellipse and its tangent that enable us to deal with the motion of bodies and other physical aspects We introduce the formalization of a theory of filters and ultrafilters and the purely definitional construction of the hyperreal numbers of Nonstandard Analysis NSA The hyperreals form a proper field extension of the reals that contains new types of numbers including infinitesimals and infinite numbers By combining notions from NSA and geometry theorem proving we propose an infinitesimal geometry in which quantities can be infinitely small This approach then reveals new properties of the geometry that only hold because infinitesimal elements are allowed We also mechanize some analytic geometry and use it to verify the geometry theories of Isabelle We then report on the main

application of this framework We discuss the formalization of several results from the Principia and give a detailed case study of one of its most important propositions the Propositio Kepleriana An anomaly is revealed in Newton s reasoning through our rigorous mechanization Finally we present the formalization of a portion of mathematical analysis using the nonstandard approach We mechanize both standard and nonstandard definitions of familiar concepts prove their equivalence and use nonstandard arguments to provide intuitive yet rigorous proofs of many of their properties *A Combination of Nonstandard Analysis and Geometry Theorem Proving, with Application to Newton's Principia* Jacques D. Fleuriot,1997

Abstract The theorem prover Isabelle is used to formalize and reproduce some of the styles of reasoning used by Newton in his Principia The Principia s reasoning is resolutely geometric in nature but contains infinitesimal elements and the presence of motion that take it beyond the traditional boundaries of Euclidean Geometry These present difficulties that prevent Newton s proofs from being mechanised using only the existing geometry theorem proving GTP techniques Using concepts from Robinson s Nonstandard Analysis NSA and a powerful geometric theory we introduce the concept of an infinitesimal geometry in which quantities can be infinitely small or infinitesimal We reveal and prove new properties of this geometry that only hold because infinitesimal elements are allowed and use them to prove lemmas and theorems from the Principia

Mechanical Theorem Proving in Geometries Wen-tsün Wu,1994-04-14 This book is a translation of Professor Wu s seminal Chinese book of 1984 on Automated Geometric Theorem Proving The translation was done by his former student Dongming Wang jointly with Xiaofan Jin so that authenticity is guaranteed Meanwhile automated geometric theorem proving based on Wu s method of characteristic sets has become one of the fundamental practically successful methods in this area that has drastically enhanced the scope of what is computationally tractable in automated theorem proving This book is a source book for students and researchers who want to study both the intuitive first ideas behind the method and the formal details together with many examples **Mechanical Geometry Theorem Proving Via Groebner Bases** Wu Jinzhao,1996

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Combination Of Geometry Theorem Proving And Nonstandard Analysis With Application To Newtons Principia**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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this composition has been contributed by ravikunj panchal