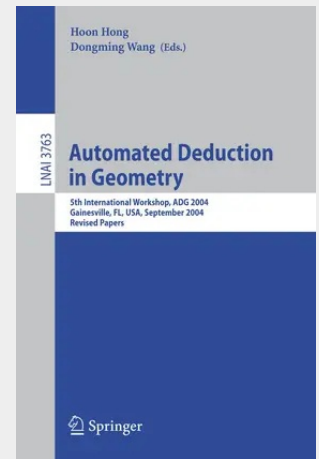


Automated Deduction in Geometry

5th International Workshop, ADG 2004, Gainesville, FL, USA, September 16-18, 2004,
Revised Papers

This book presents the thoroughly refereed post-proceedings of the 5th International Workshop on Automated Deduction in Geometry, ADG 2004, held at Gainesville, FL, USA in September 2004. The 12 revised full papers presented survey current issues theoretical and methodological topics as well as applications thereof - in particular automated geometry theorem proving, automated geometry problem solving, problems of dynamic geometry, and an object-oriented language for geometric objects.

AutomatedDeduction inGeometry(ADG) is a series of international workshops where active researchers exchange ideas and views, present research results and progress, and demonstrate software tools on the intersection between geometry and automated deduction. This volume contains several excellent papers (selected via peer review) based on the talks given at the ADG 2004 meeting hosted by the University of Florida, USA, during September 16–18, 2004. The previous four meetings were held in Linz (2002), Zurich (2000), Beijing (1998), and Toulouse (1996). This volume consists of 12 papers. The paper by Laura I. Meikle and Jacques D. Fleuriot shows how to prove the correctness of an algorithm for computing convex hulls, by using Hoare logic and Isabelle. The paper by Judit Robu, Tetsuo Ida, Dorin T. Jepeanu, Hidekazu Takahashi, and Bruno Buchberger shows how to prove the correctness of an origami construction (heptagon), by using the Theorema system and Gröbner bases. The paper by Xuefeng Chen, Peng Li, Long Lin, and Dingkang Wang shows how to treat degenerate cases in geometric theorems rigorously, by introducing partitioned-parametric Gröbner bases.



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