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Computing Curves Bounding Trigonometric Planar Maps: Symbolic and Hybrid Methods -- Towards Solving the Dynamic Geometry Bottleneck Via a Symbolic Approach -- On the Decidability of Tracing Problems in Dynamic Geometry -- Towards a Geometric-Object-Oriented Language -- Spatial Planning and Geometric Optimization: Combining Configuration Space and Energy Methods -- nD Polyhedral Scene Reconstruction from Single 2D Line Drawing by Local Propagation -- Planar Generalized Stewart Platforms and Their Direct Kinematics.

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Sommario/riassunto

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.

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