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   Altri autori (Persone) JuttlerB (Bert)
                     PieneRagni
                     DokkenTor

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   Note generali   Revised papers from a workshop series on computational methods for
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   Nota di contenuto pt. 1. Survey of the European project GAIA II -- pt. 2. Some special
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   Sommario/riassunto The two ?elds of Geometric Modeling and Algebraic Geometry, though
                     closely - lated, are traditionally represented by two almost disjoint
                     scienti?c communities. Both ?elds deal with objects de?ned by algebraic
                     equations, but the objects are studied in different ways. While algebraic
                     geometry has developed impressive - sults for understanding the
                     theoretical nature of these objects, geometric modeling focuses on
                     practical applications of virtual shapes de?ned by algebraic equations.
                     Recently, however, interaction between the two ?elds has stimulated
                     new research. For instance, algorithms for solving intersection
                     problems have bene?ted from c- tributions from the algebraic side. The
                     workshop series on Algebraic Geometry and Geometric Modeling

(Vilnius 1 2 2002 , Nice 2004) and on Computational Methods for Algebraic Spline Surfaces 3 (Kefermarkt 2003 , Oslo 2005) have provided a forum for the interaction between the two ?elds. The present volume presents revised papers which have grown out of the 2005 Oslo workshop, which was aligned with the ?nal review of the European project GAIA II, entitled Intersection algorithms for geometry based IT-applications 4 using approximate algebraic methods (IST 2001-35512) .