



Computational Methods for Algebraic Spline Surfaces: Esf Exploratory Workshop

By -

Springer. Hardcover. Book Condition: New. Hardcover. 238 pages. Dimensions: 9.3in. x 6.1in. x 0.6in. This volume contains revised papers that were presented at the international workshop entitled Computational Methods for Algebraic Spline Surfaces (COMPASS), which was held from September 29 to October 3, 2003, at Schlo Weinberg, Kefermarkt (Austria). The workshop was mainly devoted to approximate algebraic geometry and its applications. The organizers wanted to emphasize the novel idea of approximate implicitization, that has strengthened the existing link between CAD/CAGD (Computer Aided Geometric Design) and classical algebraic geometry. The existing methods for exact implicitization (i.e., for conversion from the parametric to an implicit representation of a curve or surface) require exact arithmetic and are too slow and too expensive for industrial use. Thus the duality of an implicit representation and a parametric representation is only used for low degree algebraic surfaces such as planes, spheres, cylinders, cones and toroidal surfaces. On the other hand, this duality is a very useful tool for developing efficient algorithms. Approximate implicitization makes this duality available for general curves and surfaces. The traditional exact implicitization of parametric surfaces produce global representations, which are exact everywhere. The surface...



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