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Soggetti	Geometry, Differential Computer graphics Computer science—Mathematics Optical data processing Computer science - Mathematics Differential Geometry Computer Graphics Discrete Mathematics in Computer Science Symbolic and Algebraic Manipulation Image Processing and Computer Vision Computational Science and Engineering
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Skeleton-Based Seam Computation for Triangulated Surface Parameterization -- Parameterizing N-Holed Tori -- Generic Parameterization of Bifurcating Structures -- Direct Computation of a Control Vertex Position on any Subdivision Level -- Optimising Triangulated Polyhedral Surfaces with Self-intersections -- Combinatorial Properties of Subdivision Meshes -- Watermarking 3D Polygonal Meshes Using the Singular Spectrum Analysis -- Compression of Arbitrary Mesh Data Using Subdivision Surfaces -- Triangle Mesh Duality: Reconstruction and Smoothing -- Hand Tracking Using a Quadric Surface Model and Bayesian Filtering -- Vector

Transport for Shape-from-Shading -- A Graph-Spectral Method for Surface Height Recovery -- A Robust Reconstruction Algorithm of Displaced Butterfly Subdivision Surfaces from Unorganized Points -- Filling Holes in Point Clouds -- Trimming Local and Global Self-intersections in Offset Curves Using Distance Maps -- Using Line Congruences for Parameterizing Special Algebraic Surfaces -- Boundary Conditions for the 3-Direction Box-Spline -- The Plateau-Bézier Problem -- A Functional Equation Approach to the Computation of the Parameter Symmetries of Spline Paths -- Efficient One-Sided Linearization of Spline Geometry -- Procedural Modelling, Generative Geometry, and the International Standard ISO 10303 (STEP) -- Variable-Free Representation of Manifolds via Transfinite Blending with a Functional Language -- Modified Affine Arithmetic Is More Accurate than Centered Interval Arithmetic or Affine Arithmetic -- On the Spine of a PDE Surface -- Application of PDE Methods to Visualization of Heart Data.
