

1. Record Nr.	UNISA996465951803316
Titolo	Mathematics of Surfaces [[electronic resource]] : 10th IMA International Conference, Leeds, UK, September 15-17, 2003, Proceedings // edited by Michael J. Wilson, Ralph R. Martin
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2003
ISBN	3-540-39422-2
Edizione	[1st ed. 2003.]
Descrizione fisica	1 online resource (VIII, 400 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2768
Disciplina	516.3/52
Soggetti	Differential geometry Computer graphics Computer science—Mathematics Optical data processing Computer mathematics Differential Geometry Computer Graphics Discrete Mathematics in Computer Science Symbolic and Algebraic Manipulation Image Processing and Computer Vision Computational Science and Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
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.
