GEOMETRIC DIFFERENTIATION

for the *intelligence* of curves and surfaces

IAN R. PORTEOUS

Geometric Differentiation For The Intelligence Of Curves And Surfaces

Masaaki Umehara,Kentaro Saji,Kotaro Yamada

Geometric Differentiation For The Intelligence Of Curves And Surfaces:

Geometric Differentiation I. R. Porteous,2001-12-13 This is a revised version of the popular Geometric Differentiation first edition *Shape Interrogation for Computer Aided Design and Manufacturing* Nicholas M. Patrikalakis,Takashi Maekawa,2002-02-14 Shape interrogation is the process of extraction of information from a geometric model It is a fundamental component of Computer Aided Design and Manufacturing CAD CAM systems This book provides a bridge between the areas geometric modeling and solid modeling Apart from the differential geometry topics covered the entire book is based on the unifying concept of recasting all shape interrogation problems to the solution of a nonlinear system It provides the mathematical fundamentals as well as algorithms for various shape interrogation methods including nonlinear polynomial solvers intersection problems differential geometry of intersection curves distance functions curve and surface interrogation umbilics and lines of curvature and geodesics *Differential Geometry Of Curves And Surfaces With Singularities* Masaaki Umehara,Kentaro Saji,Kotaro Yamada,2021-11-29 This book provides a unique and highly accessible approach to singularity theory from the perspective of differential geometry of curves and surfaces It is written by three leading experts on the interplay between two important fields singularity theory and differential geometry The book introduces singularities and their recognition theorems and describes their applications to geometry and topology restricting the objects of attention to singularities of plane curves and surfaces in the Euclidean 3 space In particular by presenting the singular curvature which originated through research by the authors the Gauss Bonnet theorem for surfaces is generalized to those with singularities The Gauss Bonnet theorem is intrinsic in nature that is it is a theorem not only for surfaces but also for 2 dimensional Riemannian manifolds The book also elucidates the notion of Riemannian manifolds with singularities These topics as well as elementary descriptions of proofs of the recognition theorems cannot be found in other books Explicit examples and models are provided in abundance along with insightful explanations of the underlying theory as well Numerous figures and exercise problems are given becoming strong aids in developing an understanding of the material Readers will gain from this text a unique introduction to the singularities of curves and surfaces from the viewpoint of differential geometry and it will be a useful guide for students and researchers interested in this subject *Geometric Deformations of Discriminants and Apparent Contours* Farid Tari,Mostafa Salarinoghabi,Masaru Hasegawa,2025-05-26 This book presents new and original results on the deformations of apparent contours of surfaces in Euclidean 3 space and the discriminants of plane to plane map germs Given a viewing direction the apparent contour also called the profile or outline is the projection of the set of points on the surface where the viewing direction is tangent to the surface Apparent contours are extensively used in computer vision and image analysis and pose significant mathematical challenges As the viewing direction varies the apparent contour deforms with emerging and vanishing inflections and vertices The book provides a complete catalog of these bifurcations for generic surfaces as the viewing direction changes Additionally it explores

geometric invariants that determine the maximum number of inflections and vertices that may appear in such deformations of an apparent contour Aimed at researchers working in differential geometry singularity theory computer vision and related areas the text can also serve as material for an undergraduate reading course   *Curves and Surfaces* Jean-Daniel Boissonnat,Albert Cohen,Olivier Gibaru,Christian Gout,Tom Lyche,Marie-Laurence Mazure,Larry L. Schumaker,2015-08-13 This volume constitutes the thoroughly refereed post conference proceedings of the 8th International Conference on Curves and Surfaces held in Paris France in June 2014 The conference had the overall theme Representation and Approximation of Curves and Surfaces and Applications The 32 revised full papers presented were carefully reviewed and selected from 39 submissions The scope of the conference was on following topics approximation theory computer aided geometric design computer graphics and visualization computational geometry and topology geometry processing image and signal processing interpolation and smoothing mesh generation finite elements and splines scattered data processing and learning theory sparse and high dimensional approximation subdivision wavelets and multi resolution method   *A New Approach to Differential Geometry using Clifford's Geometric Algebra* John Snygg,2011-12-09 Differential geometry is the study of the curvature and calculus of curves and surfaces A New Approach to Differential Geometry using Clifford s Geometric Algebra simplifies the discussion to an accessible level of differential geometry by introducing Clifford algebra This presentation is relevant because Clifford algebra is an effective tool for dealing with the rotations intrinsic to the study of curved space Complete with chapter by chapter exercises an overview of general relativity and brief biographies of historical figures this comprehensive textbook presents a valuable introduction to differential geometry It will serve as a useful resource for upper level undergraduates beginning level graduate students and researchers in the algebra and physics communities

Geometric Modeling and Processing - GMP 2006 Myung-Soo Kim,2006-07-11 This book constitutes the refereed proceedings of the 4th International Conference on Geometric Modeling and Processing GMP 2006 held in Pittsburgh PA USA in July 2006 The 36 revised full papers and 21 revised short papers presented were carefully reviewed and selected from a total of 84 submissions All current issues in the area of geometric modeling and processing are addressed and the impact in such areas as computer graphics computer vision machining robotics and scientific visualization is shown The papers are organized in topical sections on shape reconstruction curves and surfaces geometric processing shape deformation shape description shape recognition geometric modeling subdivision surfaces and engineering applications   **Geometric Algebra for Computer Science** Leo Dorst,Daniel Fontijne,Stephen Mann,2010-07-26 Until recently almost all of the interactions between objects in virtual 3D worlds have been based on calculations performed using linear algebra Linear algebra relies heavily on coordinates however which can make many geometric programming tasks very specific and complex often a lot of effort is required to bring about even modest performance enhancements Although linear algebra is an efficient way to specify low level computations it is not a suitable high level language for geometric programming Geometric Algebra

for Computer Science presents a compelling alternative to the limitations of linear algebra Geometric algebra or GA is a compact time effective and performance enhancing way to represent the geometry of 3D objects in computer programs In this book you will find an introduction to GA that will give you a strong grasp of its relationship to linear algebra and its significance for your work You will learn how to use GA to represent objects and perform geometric operations on them And you will begin mastering proven techniques for making GA an integral part of your applications in a way that simplifies your code without slowing it down The first book on Geometric Algebra for programmers in computer graphics and entertainment computing Written by leaders in the field providing essential information on this new technique for 3D graphics This full colour book includes a website with GAViewer a program to experiment with GA *Computational Methods for Algebraic Spline Surfaces* Tor Dokken,Bert Jüttler,2006-05-24 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 A tria The workshop was mainly devoted to approximate algebraic geometry and its plications The organizers wanted to emphasize the novel idea of approximate implici zation 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 repres tation 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 veloping ef cient algorithms Approximate implicitization makes this duality available for general curves and surfaces The traditional exact implicitization of parametric surfaces produce global rep sentations which are exact everywhere The surface patches used in CAD however are always de ned within a small box only they are obtained for a bounded parameter domain typically a rectangle or in the case of trimmed surface patches a subset of a rectangle Consequently a globally exact representation is not really needed in practice The Theory of Quantum Torus Knots - Volume III Michael Ungs,2010-08-16 Appendicies A to I that are referenced by Volumes I and II in the theory of quantum torus knots QTK A detailed mathematical derivation of space curves is provided that links the diverse fields of superfluids quantum mechanics and hydrodynamics *Geometric and Topological Mesh Feature Extraction for 3D Shape Analysis* Jean-Luc Mari,Franck Hétroy-Wheeler,Gérard Subsol,2020-01-02 Three dimensional surface meshes are the most common discrete representation of the exterior of a virtual shape Extracting relevant geometric or topological features from them can simplify the way objects are looked at help with their recognition and facilitate description and categorization according to specific criteria This book adopts the point of view of discrete mathematics the aim of which is to propose discrete counterparts to concepts mathematically defined in continuous terms It explains how standard geometric and topological notions of surfaces can be calculated and computed on a 3D surface mesh as well as their use for shape

analysis Several applications are also detailed demonstrating that each of them requires specific adjustments to fit with generic approaches The book is intended not only for students researchers and engineers in computer science and shape analysis but also numerical geologists anthropologists biologists and other scientists looking for practical solutions to their shape analysis understanding or recognition problems   *Computer Graphics* ,2014-05-19 The decades of the 1970s and 1980s were a very exciting period of discovery in the field of computer graphics It was a time when new rendering algorithms different modeling strategies clever animation techniques and significant advances in photorealism were being made Complementing these software developments hardware systems were dominated by raster technology and programmers had access to excellent workstations on which to develop their graphics systems In the 1990s incredible advances in computer graphics are far surpassing developments made during the last twenty years Yesterdays computer graphics have given way to todays virtual reality This volume brings together contributions from internationalexperts on the diverse yet important range of topics that impact the design and application of virtual environments Topics covered include 3 D modeling new approaches to rendering virtual environments recent research into the problems of animating and visualizing virtual environments applications for virtual reality systems and simulation of complex behaviors Computer Graphics Developments in Virtual Environments provides a unique opportunity to examine current practice and expert thinking It is essential reading for students practitioners researchers or anyone else who wishes to find out more about this exciting area Provides comprehensive coverage of the latest topics in computer graphics virtual reality and humancomputer interactionContributors are international experts in the fieldExamines many real world applications in a wide variety of fields

   Advances in Visual Computing George Bebis,Richard Boyle,Bahram Parvin,Darko Koracin,Yoshinori Kuno,Junxian Wang,Renato Pajarola,Peter Lindstrom,Pajarola Renato,Andre Hinkenjann,Claudio T. Silva,Miguel L. Encarnacao,Daniel Coming,2009-11-09 The two volume set LNCS 5875 and LNCS 5876 constitutes the refereed proceedings of the 5th International Symposium on Visual Computing ISVC 2009 held in Las Vegas NV USA in November December 2009 The 97 revised full papers and 63 poster papers presented together with 40 full and 15 poster papers of 7 special tracks were carefully reviewed and selected from more than 320 submissions The papers are organized in topical sections on computer graphics visualization feature extraction and matching medical imaging motion virtual reality face processing reconstruction detection and tracking applications and video analysis and event recognition The 7 additional special tracks address issues such as object recognition visual computing for robotics computational bioimaging 3D mapping modeling and surface reconstruction deformable models theory and applications visualization enhanced data analysis for health applications and optimization for vision graphics and medical imaging theory and applications   **Topological Data Structures for Surfaces** Sanjay Rana,2005-12-13 In Geography and GIS surfaces can be analysed and visualised through various data structures and topological data structures describe surfaces in the form of a relationship between certain surface specific

features Drawn from many disciplines with a strong applied aspect this is a research led interdisciplinary approach to the creation analysis and visualisation of surfaces focussing on topological data structures Topological Data Structures for Surfaces an introduction for Geographical Information Science describes the concepts and applications of these data structures The book focuses on how these data structures can be used to analyse and visualise surface datasets from a range of disciplines such as human geography computer graphics metrology and physical geography Divided into two Parts Part I defines the topological surface data structures and explains the various automated methods used for their generation Part II demonstrates a number of applications of surface networks in diverse fields ranging from sub atomic particle collision visualisation to the study of population density patterns To ensure that the material is accessible each Part is prefaced by an overview of the techniques and application Provides GI scientists and geographers with an accessible overview of current surface topology research Algorithms are presented and explained with practical examples of their usage Features an accompanying website developed by the Editor http geog le ac uk sanjayrana surface networks This book is invaluable for researchers and postgraduate students working in departments of GI Science Geography and Computer Science It also constitutes key reference material for Masters students working on surface analysis projects as part of a GI Science or Computer Science programme   Advances in Discrete Differential Geometry Alexander I. Bobenko,2016-08-12 This is one of the first books on a newly emerging field of discrete differential geometry and an excellent way to access this exciting area It surveys the fascinating connections between discrete models in differential geometry and complex analysis integrable systems and applications in computer graphics The authors take a closer look at discrete models in differential geometry and dynamical systems Their curves are polygonal surfaces are made from triangles and quadrilaterals and time is discrete Nevertheless the difference between the corresponding smooth curves surfaces and classical dynamical systems with continuous time can hardly be seen This is the paradigm of structure preserving discretizations Current advances in this field are stimulated to a large extent by its relevance for computer graphics and mathematical physics This book is written by specialists working together on a common research project It is about differential geometry and dynamical systems smooth and discrete theories and on pure mathematics and its practical applications The interaction of these facets is demonstrated by concrete examples including discrete conformal mappings discrete complex analysis discrete curvatures and special surfaces discrete integrable systems conformal texture mappings in computer graphics and free form architecture This richly illustrated book will convince readers that this new branch of mathematics is both beautiful and useful It will appeal to graduate students and researchers in differential geometry complex analysis mathematical physics numerical methods discrete geometry as well as computer graphics and geometry processing   Singularities in Geometry and Topology Jean-Paul Brasselet,2007 Singularity theory appears in numerous branches of mathematics as well as in many emerging areas such as robotics control theory imaging and various evolving areas in physics The purpose of this proceedings volume

is to cover recent developments in singularity theory and to introduce young researchers from developing countries to singularities in geometry and topology The contributions discuss singularities in both complex and real geometry As such they provide a natural continuation of the previous school on singularities held at ICTP 1991 which is recognized as having had a major influence in the field **Singularities In Geometry And Topology - Proceedings Of The Trieste Singularity Summer School And Workshop** Jean-paul Brasselet,James Damon,Dung Trang Le,Mutsuo Oka,2007-01-16 Singularity theory appears in numerous branches of mathematics as well as in many emerging areas such as robotics control theory imaging and various evolving areas in physics The purpose of this proceedings volume is to cover recent developments in singularity theory and to introduce young researchers from developing countries to singularities in geometry and topology The contributions discuss singularities in both complex and real geometry As such they provide a natural continuation of the previous school on singularities held at ICTP 1991 which is recognized as having had a major influence in the field

Geometry Revealed Marcel Berger,2010-07-23 Both classical geometry and modern differential geometry have been active subjects of research throughout the 20th century and lie at the heart of many recent advances in mathematics and physics The underlying motivating concept for the present book is that it offers readers the elements of a modern geometric culture by means of a whole series of visually appealing unsolved or recently solved problems that require the creation of concepts and tools of varying abstraction Starting with such natural classical objects as lines planes circles spheres polygons polyhedra curves surfaces convex sets etc crucial ideas and above all abstract concepts needed for attaining the results are elucidated These are conceptual notions each built above the preceding and permitting an increase in abstraction represented metaphorically by Jacob s ladder with its rungs the ladder in the Old Testament that angels ascended and descended In all this the aim of the book is to demonstrate to readers the unceasingly renewed spirit of geometry and that even so called elementary geometry is very much alive and at the very heart of the work of numerous contemporary mathematicians It is also shown that there are innumerable paths yet to be explored and concepts to be created The book is visually rich and inviting so that readers may open it at random places and find much pleasure throughout according their own intuitions and inclinations Marcel Berger is t he author of numerous successful books on geometry this book once again is addressed to all students and teachers of mathematics with an affinity for geometry *Shape Analysis and Structuring* Leila de Floriani,Michela Spagnuolo,2007-12-24 With a lot of recent developments in the field this much needed book has come at just the right time It covers a variety of topics related to preserving and enhancing shape information at a geometric level The contributors also cover subjects that are relevant to effectively capturing the structure of a shape by identifying relevant shape components and their mutual relationships **Local Features in Natural Images via Singularity Theory** James Damon,Peter Giblin,Gareth Haslinger,2016-09-30 This monograph considers a basic problem in the computer analysis of natural images which are images of scenes involving multiple objects that are obtained by a camera lens or a viewer s eye

The goal is to detect geometric features of objects in the image and to separate regions of the objects with distinct visual properties When the scene is illuminated by a single principal light source we further include the visual clues resulting from the interaction of the geometric features of objects the shade shadow regions on the objects and the apparent contours We do so by a mathematical analysis using a repertoire of methods in singularity theory This is applied for generic light directions of both the stable configurations for these interactions whose features remain unchanged under small viewer movement and the generic changes which occur under changes of view directions These may then be used to differentiate between objects and determine their shapes and positions

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