The Mathematics of Surfaces IX

Proceedings of the
Ninth IMA Conference
on the Mathematics
of Surfaces

Roberto Cipolla
and
Ralph Martin (Eds)

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making arrangements Stephanie Harding and Karen Barker at Springer Verlag London for publishing this volume and to Kwan Yee Kenneth Wong Cambridge for his heroic help with com piling the proceedings and for dealing with numerous technicalities arising from large and numerous computer files Following this Preface is a listing of the programme committee who with the help of their colleagues did much work in refereeing the papers for these proceedings   Mathematics of Surfaces XII Ralph Martin,2007-08-22 This book constitutes the refereed proceedings of the 12th IMA International Conference on the Mathematics of Surfaces held in Sheffield UK in September 2007 The 22 revised full papers presented together with 8 invited papers were carefully reviewed and selected from numerous submissions Among the topics addressed is the applicability of various aspects of mathematics to engineering and computer science especially in domains such as computer aided design computer vision and computer graphics The papers cover a range of ideas from underlying theoretical tools to industrial uses of surfaces Research is reported on theoretical aspects of surfaces including topology parameterization differential geometry and conformal geometry and also more practical topics such as geometric tolerances computing shape from shading and medial axes for industrial applications Other specific areas of interest include subdivision schemes solutions of differential equations on surfaces knot insertion surface segmentation surface deformation and surface fitting   *Mathematics of Surfaces XI* Malcolm Sabin,Ralph Martin,Helmut Bez,2005-10-03 This book constitutes the refereed proceedings of the 11th IMA International Conference on the Mathematics of Surfaces held in Loughborough UK in September 2005 The 28 revised full papers presented were carefully reviewed and selected from numerous submissions Among the topics addressed are Voronoi diagrams linear systems curvatures on meshes approximate parameterization condition numbers pythagorean hodographs artifacts in B spline surfaces B zier surfaces of minimal energy line subdivision subdivision surfaces level sets and symmetry the topology of algebraic surfaces embedding graphs in manifolds recovery of 3D shape from shading finding optimal feedrates for machining and improving of range data   Mathematics of Surfaces Michael J. Wilson,Ralph R. Martin,2003-11-03 This book constitutes the refereed proceedings of the 10th IMA International Conference on the Mathematics of Surfaces held in Leeds UK in September 2003 The 25 revised full papers presented were carefully reviewed and selected from numerous submissions Among the topics addressed are triangulated surface parameterization bifurcation structures control vertex computation polyhedral surfaces watermarking 3D polygonal meshed subdivision surfaces surface reconstruction vector transport shape from shading surface height recovery algebraic surfaces box splines the Plateau Bezier problem spline geometry generative geometry manifold representation affine arithmetic and PDE surfaces   *Curves and Surfaces* Jean-Daniel Boissonnat,Patrick Chenin,Albert Cohen,Christian Gout,Tom Lyche,Marie-Laurence Mazure,Larry Schumaker,2012-01-07 This volume constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Curves and Surfaces held in Avignon in June 2010 The conference had the overall theme Representation and Approximation of Curves and Surfaces and Applications The 39 revised full papers

presented together with 9 invited talks were carefully reviewed and selected from 114 talks presented at the conference The topics addressed by the papers range from mathematical foundations to practical implementation on modern graphics processing units and address a wide area of topics such as computer aided geometric design computer graphics and visualisation computational geometry and topology geometry processing image and signal processing interpolation and smoothing scattered data processing and learning theory and subdivision wavelets and multi resolution methods **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 **Handbook of Computer Aided Geometric Design** G. Farin,J. Hoschek,M.-S. Kim,2002-08-13 This book provides a comprehensive coverage of the fields Geometric Modeling Computer Aided Design and Scientific Visualization or Computer Aided Geometric Design Leading international experts have contributed thus creating a one of a kind collection of authoritative articles There are chapters outlining basic theory in tutorial style as well as application oriented articles Aspects which are covered include Historical outline Curve and surface methods Scientific Visualization Implicit methods Reverse engineering This book is meant to be a reference text for researchers in the field as well as an introduction to graduate students wishing to get some exposure to this subject *Catalogue of Scientific Papers* Royal Society (Great Britain),1870 <u>Visual Form 2001</u> Carlo Arcelli,Luigi P. Cordella,Gabriella Sanniti di Baja,2003-06-29 This book constitutes the refereed proceedings of the 4th International Workshop on Visual Form IWVF 4 held in Capri Italy in May 2001 The 66 revised full papers presented together with seven invited papers were carefully reviewed and selected from 117 submissions The book covers theoretical and applicative aspects of visual form processing The papers are organized in topical sections on representation analysis recognition modelling and retrieval and applications <u>Dynamical Systems IX</u> D.V. Anosov,2013-03-14 This volume is devoted to the hyperbolic theory of dynamical systems DS that is the theory of smooth DS s with hyperbolic behaviour of the tra jectories generally speaking not the individual trajectories but trajectories filling out more or less significant subsets in the phase space Hyperbolicity the property that under a small displacement of any of a trajectory consists in point of it to one side of the trajectory the change with time of the relative positions of the original and displaced points resulting from the action of the DS is reminiscent of the mot ion next to a saddle If there are sufficiently many such trajectories and the phase space is compact then although they tend to diverge from one another as it were they have nowhere to go and their behaviour acquires a complicated intricate character In the physical literature one often talks about chaos in such situations This type of be haviour would appear to be the opposite of the more customary and simple type of behaviour characterized by its own kind of stability and regularity of the motions these words are for the moment not being used as a strict ter 1 minology but

rather as descriptive informal terms The ergodic properties of DS s with hyperbolic behaviour of trajectories Bunimovich et al 1985 have already been considered in Volume 2 of this series In this volume we therefore consider mainly the properties of a topological character see below 2 for further details   *History Algebraic Geometry* Suzanne C. Dieudonne,2017-11-22 This book contains several fundamental ideas that are revived time after time in different guises providing a better understanding of algebraic geometric phenomena It shows how the field is enriched with loans from analysis and topology and from commutative algebra and homological algebra   Catalogue of Scientific Papers (1800-1863) ; Compiled and Published by the Royal Society of London ,1867   *Applications of Geometric Algebra in Computer Science and Engineering* Leo Dorst,Chris Doran,Joan Lasenby,2012-12-06 Geometric algebra has established itself as a powerful and valuable mathematical tool for solving problems in computer science engineering physics and mathematics The articles in this volume written by experts in various fields reflect an interdisciplinary approach to the subject and highlight a range of techniques and applications Relevant ideas are introduced in a self contained manner and only a knowledge of linear algebra and calculus is assumed Features and Topics The mathematical foundations of geometric algebra are explored Applications in computational geometry include models of reflection and ray tracing and a new and concise characterization of the crystallographic groups Applications in engineering include robotics image geometry control pose estimation inverse kinematics and dynamics control and visual navigation Applications in physics include rigid body dynamics elasticity and electromagnetism Chapters dedicated to quantum information theory dealing with multi particle entanglement MRI and relativistic generalizations Practitioners professionals and researchers working in computer science engineering physics and mathematics will find a wide range of useful applications in this state of the art survey and reference book Additionally advanced graduate students interested in geometric algebra will find the most current applications and methods discussed   Catalogue of Scientific Papers, 1800-1900 Royal Society (Great Britain),1877   **Catalogue of Scientific Papers (1800-1900): ser. 2 , 1864-1873** Royal Society (Great Britain),1877   **Computer Algebra and Geometric Algebra with Applications** Hongbo Li,2005-06-21 This book constitutes the thoroughly refereed joint post proceedings of the 6th International Workshop on Mathematics Mechanization IWMM 2004 held in Shanghai China in May 2004 and the International Workshop on Geometric Invariance and Applications in Engineering GIAE 2004 held in Xian China in May 2004 The 30 revised full papers presented were rigorously reviewed and selected from 65 presentations given at the two workshops The papers are devoted to topics such as applications of computer algebra in celestial and engineering multibody systems differential equations computer vision computer graphics and the theory and applications of geometric algebra in geometric reasoning robot vision and computer graphics   *Uncertainty in Geometric Computations* Joab Winkler,Mahesan Niranjan,2012-12-06 This book contains the proceedings of the workshop Uncertainty in Geomet ric Computations that was held in Sheffield England July 5 6 2001 A total of 59 delegates from 5 countries in Europe North America and Asia attended

the workshop The workshop provided a forum for the discussion of com putational methods for quantifying representing and assessing the effects of uncertainty in geometric computations It was organised around lectures by invited speakers and presentations in poster form from participants Computer simulations and modelling are used frequently in science and engi neering in applications ranging from the understanding of natural and artificial phenomena to the design test and manufacturing stages of production This widespread use necessarily implies that detailed knowledge of the limitations of computer simulations is required In particular the usefulness of a computer simulation is directly dependent on the user s knowledge of the uncertainty in the simulation Although an understanding of the phenomena being modelled is an important requirement of a good computer simulation the model will be plagued by deficiencies if the errors and uncertainties in it are not consid ered when the results are analysed The applications of computer modelling are large and diverse but the workshop focussed on the management of un certainty in three areas Geometric modelling computer vision and computer graphics **Geometric Algebra for Physicists** Chris Doran,Anthony Lasenby,2007-11-22 Geometric algebra is a powerful mathematical language with applications across a range of subjects in physics and engineering This book is a complete guide to the current state of the subject with early chapters providing a self contained introduction to geometric algebra Topics covered include new techniques for handling rotations in arbitrary dimensions and the links between rotations bivectors and the structure of the Lie groups Following chapters extend the concept of a complex analytic function theory to arbitrary dimensions with applications in quantum theory and electromagnetism Later chapters cover advanced topics such as non Euclidean geometry quantum entanglement and gauge theories Applications such as black holes and cosmic strings are also explored It can be used as a graduate text for courses on the physical applications of geometric algebra and is also suitable for researchers working in the fields of relativity and quantum theory

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