

Michael J. Wilson
Ralph R. Martin (Eds.)

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Mathematics of Surfaces

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**Mathematics Of Surfaces 10th Ima International
Conference Leeds Uk September 1517 2003 Proceedings**

Roberto Cipolla



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Mathematics of Surfaces Michael J. Wilson, 2003-09-09 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 *Mathematics of Surfaces* Michael J. Wilson, Ralph R. Martin, 2014-03-12 *Mathematics of Surfaces XI* Malcolm Sabin, Ralph Martin, Helmut Bez, 2005-08-25

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Ralph R. Martin, Helmut Bez, Malcolm Sabin, 2005-08-25 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 XIII* Ralph R. Martin, 2009-08-06 This book constitutes the refereed proceedings of the 13th IMA International Conference on the Mathematics of Surfaces held in York UK in September 2009 The papers in the present volume include seven invited papers as well as 16 submitted papers The topics covered include subdivision schemes and their continuity polar patchworks compressive algorithms for PDEs surface invariant functions swept volume parameterization Willmore flow computational conformal geometry heat kernel embeddings and self organizing maps on manifolds mesh and manifold construction editing flattening morphing and interrogation dissection of planar shapes symmetry processing morphable models computation of isophotes point membership classification and vertex blends Surface types considered encompass polygon meshes as well as parametric and implicit surfaces **Mathematics of surfaces** , The Mathematics of Surfaces IX Roberto Cipolla, Ralph Martin, 2012-02-06 These proceedings collect the papers accepted for presentation at the bien nial IMA Conference on the Mathematics of Surfaces held in the University of Cambridge 4 7 September 2000 While there are many international conferences in this fruitful borderland of mathematics computer graphics and engineering this is the oldest the most frequent and the only one to concen trate on surfaces Contributors to this volume come from twelve different countries in Eu rope North America and Asia Their contributions reflect the wide diversity of present day applications which include modelling parts of the human body for medical purposes as well as the production of cars aircraft and engineer ing components Some applications involve design or construction of surfaces by interpolating or approximating data given at points or on curves Others consider the problem of reverse engineering giving a mathematical descrip tion of an already constructed object We are particularly grateful to Pamela Bye at the Institue of Mathemat ics and its Applications for help in 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 *The Mathematics of Surfaces IX* Roberto Cipolla, 2000 This book contains the Proceedings of the Ninth Mathematics of Surfaces Conference organised by the Institute of Mathematics and its Applications and held in Cambridge UK on 4th 6th September 2000 The papers describe the mathematical construction representation approximation recognition and manipulation of surfaces with an emphasis on computational methods Highlights include invited papers from M Floater SNTF Norway O Faugeras INRIA France P Giblin Liverpool University UK M S Kim Seoul National University Korea J Koenderink University of Utrecht Netherlands N Patrikalakis MIT USA H Pottmann Technical University of Vienna Austria and R Schaback University of G ttingen Germany *Mathematics of Surfaces* , 1986

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