

MONOGRAPHS IN COMPUTER SCIENCE

NUMERICAL GEOMETRY OF NON-RIGID SHAPES

Alexander M. Bronstein
Michael M. Bronstein
Ron Kimmel



 Springer

Numerical Geometry Of Non Rigid Shapes Monographs In Computer Science

**Vittorio Ferrari, Martial Hebert, Cristian
Sminchisescu, Yair Weiss**



Numerical Geometry Of Non Rigid Shapes Monographs In Computer Science:

Numerical Geometry of Non-Rigid Shapes Alexander M. Bronstein, Michael M. Bronstein, Ron Kimmel, 2008-09-18 Deformable objects are ubiquitous in the world surrounding us on all levels from micro to macro The need to study such shapes and model their behavior arises in a wide spectrum of applications ranging from medicine to security In recent years non rigid shapes have attracted growing interest which has led to rapid development of the field where state of the art results from very different sciences theoretical and numerical geometry optimization linear algebra graph theory machine learning and computer graphics to mention several are applied to find solutions This book gives an overview of the current state of science in analysis and synthesis of non rigid shapes Everyday examples are used to explain concepts and to illustrate different techniques The presentation unfolds systematically and numerous figures enrich the engaging exposition Practice problems follow at the end of each chapter with detailed solutions to selected problems in the appendix A gallery of colored images enhances the text This book will be of interest to graduate students researchers and professionals in different fields of mathematics computer science and engineering It may be used for courses in computer vision numerical geometry and geometric modeling and computer graphics or for self study *Representations, Analysis and Recognition of Shape and Motion from Imaging Data* Boulbaba Ben Amor, Faten Chaieb, Faouzi Ghorbel, 2017-06-27 This book constitutes the refereed proceedings of the 6th International Workshop on Representations Analysis and Recognition of Shape and Motion from Imaging Data RFMI 2016 held in Sidi Bou Said Village Tunisia in October 2016 The 9 revised full papers and 7 revised short papers presented were carefully reviewed and selected from 23 submissions The papers are organized in topical sections on 3D shape registration and comparison face analysis and recognition video and motion analysis 2D shape analysis

Handbook of Mathematical Methods in Imaging Otmar Scherzer, 2010-11-23 The Handbook of Mathematical Methods in Imaging provides a comprehensive treatment of the mathematical techniques used in imaging science The material is grouped into two central themes namely Inverse Problems Algorithmic Reconstruction and Signal and Image Processing Each section within the themes covers applications modeling mathematics numerical methods using a case example and open questions Written by experts in the area the presentation is mathematically rigorous The entries are cross referenced for easy navigation through connected topics Available in both print and electronic forms the handbook is enhanced by more than 150 illustrations and an extended bibliography It will benefit students scientists and researchers in applied mathematics Engineers and computer scientists working in imaging will also find this handbook useful *Scale Space and Variational Methods in Computer Vision* Jan Lellmann, Martin Burger, Jan Modersitzki, 2019-06-21 This book constitutes the proceedings of the 7th International Conference on Scale Space and Variational Methods in Computer Vision SSVI 2019 held in Hofgeismar Germany in June July 2019 The 44 papers included in this volume were carefully reviewed and selected for inclusion in this book They were organized in topical sections named 3D vision and feature analysis

inpainting interpolation and compression inverse problems in imaging optimization methods in imaging PDEs and level set methods registration and reconstruction scale space methods segmentation and labeling and variational methods

Advances in Visual Computing George Bebis, Bo Li, Angela Yao, Yang Liu, Ye Duan, Manfred Lau, Rajiv Khadka, Ana Crisan, Remco Chang, 2022-12-09 This two volume set of LNCS 13598 and 13599 constitutes the refereed proceedings of the 17th International Symposium on Visual Computing ISVC 2022 which was held in October 2022 The 61 papers presented in these volumes were carefully reviewed and selected from 110 submissions They are organized in the following topical sections Part I deep learning I visualization object detection and recognition deep learning II video analysis and event recognition computer graphics ST biomedical imaging techniques for cancer detection diagnosis and management Part II ST neuro inspired artificial intelligence applications segmentation and tracking virtual reality poster Graph-Based Representations in Pattern Recognition Cheng-Lin Liu, Bin Luo, Walter G. Kropatsch, Jian Cheng, 2015-05-04 This book constitutes the refereed proceedings of the 10th IAPR TC 15 International Workshop on Graph Based Representations in Pattern Recognition GbRPR 2015 held in Beijing China in May 2015 The 36 papers presented in this volume were carefully reviewed and selected from 53 submissions The accepted papers cover diverse issues of graph based methods and applications with 7 in graph representation 15 in graph matching 7 in graph clustering and classification and 7 in graph based applications **Computer Vision - ECCV 2018** Vittorio Ferrari, Martial Hebert, Cristian Sminchisescu, Yair Weiss, 2018-10-08 The sixteen volume set comprising the LNCS volumes 11205 11220 constitutes the refereed proceedings of the 15th European Conference on Computer Vision ECCV 2018 held in Munich Germany in September 2018 The 776 revised papers presented were carefully reviewed and selected from 2439 submissions The papers are organized in topical sections on learning for vision computational photography human analysis human sensing stereo and reconstruction optimization matching and recognition video attention and poster sessions ROBOT2013: First Iberian Robotics Conference Manuel A. Armada, Alberto Sanfeliu, Manuel Ferre, 2013-11-12 The interest in robotics has remarkably augmented over recent years Novel solutions for complex and very diverse application fields exploration intervention in severe environments assistive social personal services emergency rescue operations transportation unmanned aerial vehicles medical etc has been anticipated by means of a large progress in this area of robotics Moreover the amalgamation of original ideas and related innovations the search for new potential applications and the use of state of the art supporting technologies permit to foresee an important step forward and a significant socio economic impact of advanced robot technology in the forthcoming years In response to the technical challenges in the development of these sophisticated machines a significant research and development effort has yet to be undertaken It concerns embedded technologies for power sources actuators sensors information systems new design methods adapted control techniques for highly redundant systems as well as operational and decisional autonomy and human robot co existence This book contains the proceedings of the ROBOT 2013 FIRST IBERIAN

ROBOTICS CONFERENCE and it can be said that included both state of the art and more practical presentations dealing with implementation problems support technologies and future applications A growing interest in Assistive Robotics Agricultural Robotics Field Robotics Grasping and Dexterous Manipulation Humanoid Robots Intelligent Systems and Robotics Marine Robotics has been demonstrated by the very relevant number of contributions Moreover ROBOT2013 incorporates a special session on Legal and Ethical Aspects in Robotics that is becoming a topic of key relevance This Conference will be held in Madrid 28 29 November 2013 organised by the Sociedad Española para la Investigación y Desarrollo en Robótica SEIDROB and by the Centre for Automation and Robotics CAR Universidad Politécnica de Madrid UPM and Consejo Superior de Investigaciones Científicas CSIC along with the cooperation of Grupo Temático de Robótica CEA GTRob Sociedade Portuguesa de Robotica SPR and Asociación Española de Promoción de la Investigación en Agentes Físicos RedAF

The British National Bibliography Arthur James Wells,2009 **Numerical Geometry of Non-rigid Objects : Embedding Problems** Alexander Bronstein,Технион, Матхон технологи ле-Йісра'ел. Факультат ле-мад'е ха-машшев,2007

Mathematical Reviews ,2005 Perception ,2000 *Subject Guide to Books in Print* ,1975 **Computational Geometry** Franco P. Preparata,Michael Shamos,2012-09-27 From the reviews This book offers a coherent treatment at the graduate textbook level of the field that has come to be known in the last decade or so as computational geometry The book is well organized and lucidly written a timely contribution by two founders of the field It clearly demonstrates that computational geometry in the plane is now a fairly well understood branch of computer science and mathematics It also points the way to the solution of the more challenging problems in dimensions higher than two Mathematical Reviews 1 This remarkable book is a comprehensive and systematic study on research results obtained especially in the last ten years The very clear presentation concentrates on basic ideas fundamental combinatorial structures and crucial algorithmic techniques The plenty of results is cleverly organized following these guidelines and within the framework of some detailed case studies A large number of figures and examples also aid the understanding of the material Therefore it can be highly recommended as an early graduate text but it should prove also to be essential to researchers and professionals in applied fields of computer aided design computer graphics and robotics Biometrical Journal 2

Geometry, Graphics, and Numerical Analysis Princeton University. Department of Computer Science,Deborah E. Silver,1988 Geometric Methods and Applications Jean H. Gallier,2001 An introduction to the fundamental geometric concepts and tools needed for solving problems of a geometric nature using a computer The book offers overviews of affine projective Euclidian and differential geometry exploring many of their practical applications and providing the geometric background needed for conducting research in computer graphics geometric modeling computer vision and robotics

Future Vision and Trends on Shapes, Geometry and Algebra Raffaele de Amicis,Giuseppe Conti,2014-06-13 Mathematical algorithms are a fundamental component of Computer Aided Design and Manufacturing CAD CAM systems This book provides a bridge between algebraic geometry and geometric

modelling algorithms formulated within a computer science framework Apart from the algebraic geometry topics covered the entire book is based on the unifying concept of using algebraic techniques properly specialized to solve geometric problems to seriously improve accuracy robustness and efficiency of CAD systems It provides new approaches as well as industrial applications to deform surfaces when animating virtual characters to automatically compare images of handwritten signatures and to improve control of NC machines This book further introduces a noteworthy representation based on 2D contours which is essential to model the metal sheet in industrial processes It additionally reviews applications of numerical algebraic geometry to differential equations systems with multiple solutions and bifurcations Future Vision and Trends on Shapes Geometry and Algebra is aimed specialists in the area of mathematics and computer science on the one hand and on the other hand at those who want to become familiar with the practical application of algebraic geometry and geometric modelling such as students researchers and doctorates

Computational Geometry and Its Applications Hartmut Noltemeier, 1988-10-12 The International Workshop CG 88 on Computational Geometry was held at the University of Würzburg FRG March 24 25 1988 As the interest in the fascinating field of Computational Geometry and its Applications has grown very quickly in recent years the organizers felt the need to have a workshop where a suitable number of invited participants could concentrate their efforts in this field to cover a broad spectrum of topics and to communicate in a stimulating atmosphere This workshop was attended by some fifty invited scientists The scientific program consisted of 22 contributions of which 18 papers with one additional paper M Reichling are contained in the present volume The contributions covered important areas not only of fundamental aspects of Computational Geometry but a lot of interesting and most promising applications Algorithmic Aspects of Geometry Arrangements Nearest Neighbor Problems and Abstract Voronoi Diagrams Data Structures for Geometric Objects Geo Relational Algebra Geometric Modeling Clustering and Visualizing Geometric Objects Finite Element Methods Triangulating in Parallel Animation and Ray Tracing Robotics Motion Planning Collision Avoidance Visibility Smooth Surfaces Basic Models of Geometric Computations Automatizing Geometric Proofs and Constructions

Digital and Discrete Geometry Li M. Chen, 2014-12-12 This book provides comprehensive coverage of the modern methods for geometric problems in the computing sciences It also covers concurrent topics in data sciences including geometric processing manifold learning Google search cloud data and R tree for wireless networks and BigData The author investigates digital geometry and its related constructive methods in discrete geometry offering detailed methods and algorithms The book is divided into five sections basic geometry digital curves surfaces and manifolds discretely represented objects geometric computation and processing and advanced topics Chapters especially focus on the applications of these methods to other types of geometry algebraic topology image processing computer vision and computer graphics Digital and Discrete Geometry Theory and Algorithms targets researchers and professionals working in digital image processing analysis medical imaging such as CT and MRI and informatics computer graphics computer vision

biometrics and information theory Advanced level students in electrical engineering mathematics and computer science will also find this book useful as a secondary text book or reference Praise for this book This book does present a large collection of important concepts of mathematical geometrical or algorithmical nature that are frequently used in computer graphics and image processing These concepts range from graphs through manifolds to homology Of particular value are the sections dealing with discrete versions of classic continuous notions The reader finds compact definitions and concise explanations that often appeal to intuition avoiding finer but then necessarily more complicated arguments As a first introduction or as a reference for professionals working in computer graphics or image processing this book should be of considerable value Prof Dr Rolf Klein University of Bonn **Geometric Methods and Applications** Jean Gallier,2000-11-03

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