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Digital and Discrete Geometry

Theory and Algorithms

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Victor M. Corman



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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

Digital and Discrete Geometry Li Chen, 2015-01-09 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

Encyclopedia of Computer Science and Technology Phillip A. Laplante, 2017-10-02 With breadth and depth of coverage the Encyclopedia of Computer Science and Technology Second Edition has a multi disciplinary scope drawing together comprehensive coverage of the inter related aspects of computer

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Mathematical Problems in Data Science Li M. Chen, Zhixun Su, Bo Jiang, 2015-12-15 This book describes current problems in data science and Big Data Key topics are data classification Graph Cut the Laplacian Matrix Google Page Rank efficient algorithms hardness of problems different types of big data geometric data structures topological data processing and various learning methods For unsolved problems such as incomplete data relation and reconstruction the book includes possible solutions and both statistical and computational methods for data analysis Initial chapters focus on exploring the properties of incomplete data sets and partial connectedness among data points or data sets Discussions also cover the completion problem of Netflix matrix machine learning method on massive data sets image segmentation and video search This book introduces software tools for data science and Big Data such MapReduce Hadoop and Spark This book contains three parts The first part explores the fundamental tools of data science It includes basic graph theoretical methods statistical and AI methods for massive data sets In second part chapters focus on the procedural treatment of data science problems including machine learning methods mathematical image and video processing topological data analysis and statistical methods The final section provides case studies on special topics in variational learning manifold learning business

and financial data recovery geometric search and computing models Mathematical Problems in Data Science is a valuable resource for researchers and professionals working in data science information systems and networks Advanced level students studying computer science electrical engineering and mathematics will also find the content helpful

Encyclopedia of Image Processing Phillip A. Laplante, 2018-11-08 The Encyclopedia of Image Processing presents a vast collection of well written articles covering image processing fundamentals e.g. color theory fuzzy sets cryptography and applications e.g. geographic information systems traffic analysis forgery detection Image processing advances have enabled many applications in healthcare avionics robotics natural resource discovery and defense which makes this text a key asset for both academic and industrial libraries and applied scientists and engineers working in any field that utilizes image processing Written by experts from both academia and industry it is structured using the ACM Computing Classification System CCS first published in 1988 but most recently updated in 2012 *Image Processing And Analysis: A Primer* Georgy Gimel'farb, Patrice Delmas, 2018-08-24 This textbook guides readers through their first steps into the challenging world of mimicking human vision with computational tools and techniques pertaining to the field of image processing and analysis While today's theoretical and applied processing and analysis of images meet with challenging and complex problems this primer is confined to a much simpler albeit critical collection of image to image transformations including image normalisation enhancement and filtering It serves as an introduction to beginners a refresher for undergraduate and graduate students as well as engineers and computer scientists confronted with a problem to solve in computer vision The book covers basic image processing computer vision pipeline techniques which are widely used in today's computer vision computer graphics and image processing giving the readers enough knowledge to successfully tackle a wide range of applied problems

Discrete Surfaces and Manifolds Li Chen, 2004-01-01 **Discrete Geometry for Computer Imagery** Nicolas Normand, Jeanpierre Guédon, Florent Autrusseau, 2016-04-08 This book constitutes the refereed proceedings of the 19th IAPR International Conference on Discrete Geometry for Computer Imagery DGCi 2016 held in Nantes France in April 2016 The 32 revised full papers presented together with 2 invited talks were carefully selected from 51 submissions The papers are organized in topical sections on combinatorial tools discretization discrete tomography discrete and combinatorial topology shape descriptors models for discrete geometry circle drawing morphological analysis geometric transforms and discrete shape representation recognition and analysis Computational Modelling of Objects Represented in Images. Fundamentals, Methods and Applications João Manuel R.S. Tavares, Jorge R.M. Natal, 2018-05-08 This book contains keynote lectures and full papers presented at the International Symposium on Computational Modelling of Objects Represented in Images CompIMAGE held in Coimbra Portugal on 20-21 October 2006 International contributions from nineteen countries provide a comprehensive coverage of the current state of the art in the fields of Image Processing and Analysis Image Segmentation Data Interpolation Registration Acquisition and Compression 3D Reconstruction Objects Tracking Motion and

Deformation Analysis Objects Simulation Medical Imaging Computational Bioimaging and Visualization Related techniques also covered in this book include the finite element method modal analyses stochastic methods principal and independent components analyses and distribution models Computational Modelling of Objects Represented in Images will be useful to academics researchers and professionals in Computational Vision image processing and analysis Computer Sciences and Computational Mechanics

Teaching and Learning Discrete Mathematics Worldwide: Curriculum and Research Eric W. Hart, James Sandefur, 2017-12-09 This book discusses examples of discrete mathematics in school curricula including in the areas of graph theory recursion and discrete dynamical systems combinatorics logic game theory and the mathematics of fairness In addition it describes current discrete mathematics curriculum initiatives in several countries and presents ongoing research especially in the areas of combinatorial reasoning and the affective dimension of learning discrete mathematics Discrete mathematics is the math of our time So declared the immediate past president of the National Council of Teachers of Mathematics John Dossey in 1991 Nearly 30 years later that statement is still true although the news has not yet fully reached school mathematics curricula Nevertheless much valuable work has been done and continues to be done This volume reports on some of that work It provides a glimpse of the state of the art in learning and teaching discrete mathematics around the world and it makes the case once again that discrete mathematics is indeed mathematics for our time even more so today in our digital age and it should be included in the core curricula of all countries for all students

Combinatorial Image Analysis Ralf Reulke, Ulrich Eckardt, Boris Flach, Uwe Knauer, Konrad Polthier, 2006-06-15 This volume constitutes the refereed proceedings of the 11th International Workshop on Combinatorial Image Analysis IW CIA 2006 held in Berlin June 2006 The book presents 34 revised full papers together with two invited papers covering topics including combinatorial image analysis grammars and models for analysis and recognition of scenes and images combinatorial topology and geometry for images digital geometry of curves and surfaces algebraic approaches to image processing and more

Substitution and Tiling Dynamics: Introduction to Self-inducing Structures Shigeki Akiyama, Pierre Arnoux, 2020-12-05 This book presents a panorama of recent developments in the theory of tilings and related dynamical systems It contains an expanded version of courses given in 2017 at the research school associated with the Jean Morlet chair program Tilings have been designed used and studied for centuries in various contexts This field grew significantly after the discovery of aperiodic self similar tilings in the 60s linked to the proof of the undecidability of the Domino problem and was driven further by Dan Shechtman's discovery of quasicrystals in 1984 Tiling problems establish a bridge between the mutually influential fields of geometry dynamical systems aperiodic order computer science number theory algebra and logic The main properties of tiling dynamical systems are covered with expositions on recent results in self similarity and its generalizations fusions rules and S adic systems algebraic developments connected to physics games and undecidability questions and the spectrum of substitution tilings

Advances in Computational Vision and Medical

Image Processing Joao Tavares, R. M. Natal Jorge, 2008-12-21 Computational methodologies of signal processing and imaging analysis namely considering 2D and 3D images are commonly used in different applications of the human society For example Computational Vision systems are progressively used for surveillance tasks traffic analysis recognition process inspection poses human machine interfaces 3D vision and deformation analysis One of the main characteristics of the Computational Vision domain is its interdisciplinary In fact in this domain methodologies of several more fundamental sciences such as Informatics Mathematics Statistics Psychology Mechanics and Physics are usually used Besides this interdisciplinary characteristic one of the main reasons that contributes for the continually effort done in this domain of the human knowledge is the number of applications in the medical area For instance it is possible to consider the use of statistical or physical procedures on medical images in order to model the represented structures This modeling can have different goals for example shape reconstruction segmentation registration behavior interpretation and simulation motion and deformation analysis virtual reality computer assisted therapy or tissue characterization The main objective of the ECCOMAS Thematic Conferences on Computational Vision and Medical Image Processing VIPImage is to promote a comprehensive forum for discussion on the recent advances in the related fields trying to identify widespread areas of potential collaboration between researchers of different sciences

Interdisciplinary Design: Proceedings of the 21st CIRP Design Conference, *Digital Geometry Algorithms* Valentin E. Brimkov, Reneta P. Barneva, 2012-05-20 Digital geometry emerged as an independent discipline in the second half of the last century It deals with geometric properties of digital objects and is developed with the unambiguous goal to provide rigorous theoretical foundations for devising new advanced approaches and algorithms for various problems of visual computing Different aspects of digital geometry have been addressed in the literature This book is the first one that explicitly focuses on the presentation of the most important digital geometry algorithms Each chapter provides a brief survey on a major research area related to the general volume theme description and analysis of related fundamental algorithms as well as new original contributions by the authors Every chapter contains a section in which interesting open problems are addressed

Discrete Geometry for Computer Imagery David Coeurjolly, Isabelle Sivignon, Laure Tougne, Florent Dupont, 2008-04-03 This book constitutes the refereed proceedings of the 14th IAPR TC 18 International Conference on Discrete Geometry for Computer Imagery DGCI 2008 held in Lyon France in April 2008 The 23 revised full papers and 22 revised poster papers presented together with 3 invited papers were carefully reviewed and selected from 76 submissions The papers are organized in topical sections on models for discrete geometry discrete and combinatorial topology geometric transforms discrete shape representation recognition and analysis discrete tomography morphological analysis discrete modelling and visualization as well as discrete and combinatorial tools for image segmentation and analysis

Foundations of Image Understanding Larry S. Davis, 2012-12-06 Computer systems that analyze images are critical to a wide variety of applications such as visual inspections systems for various

manufacturing processes remote sensing of the environment from space borne imaging platforms and automatic diagnosis from X rays and other medical imaging sources Professor Azriel Rosenfeld the founder of the field of digital image analysis made fundamental contributions to a wide variety of problems in image processing pattern recognition and computer vision Professor Rosenfeld s previous students postdoctoral scientists and colleagues illustrate in Foundations of Image Understanding how current research has been influenced by his work as the leading researcher in the area of image analysis for over two decades Each chapter of Foundations of Image Understanding is written by one of the world s leading experts in his area of specialization examining digital geometry and topology early research which laid the foundations for many industrial machine vision systems edge detection and segmentation fundamental to systems that analyze complex images of our three dimensional world multi resolution and variable resolution representations for images and maps parallel algorithms and systems for image analysis and the importance of human psychophysical studies of vision to the design of computer vision systems Professor Rosenfeld s chapter briefly discusses topics not covered in the contributed chapters providing a personal historical perspective on the development of the field of image understanding Foundations of Image Understanding is an excellent source of basic material for both graduate students entering the field and established researchers who require a compact source for many of the foundational topics in image analysis

Geometric Properties for Incomplete Data

Reinhard Klette,Ryszard Kozera,Lyle Noakes,Joachim Weickert,2006-03-14 Computer vision and image analysis require interdisciplinary collaboration between mathematics and engineering This book addresses the area of high accuracy measurements of length curvature motion parameters and other geometrical quantities from acquired image data It is a common problem that these measurements are incomplete or noisy such that considerable efforts are necessary to regularise the data to fill in missing information and to judge the accuracy and reliability of these results This monograph brings together contributions from researchers in computer vision engineering and mathematics who are working in this area The book can be read both by specialists and graduate students in computer science electrical engineering or mathematics who take an interest in data evaluations by approximation or interpolation in particular data obtained in an image analysis context

Mathematical Foundations of Image Processing and Analysis, Volume 2 Jean-Charles Pinoli,2014-07-22

Mathematical Imaging is currently a rapidly growing field in applied mathematics with an increasing need for theoretical mathematics This book the second of two volumes emphasizes the role of mathematics as a rigorous basis for imaging sciences It provides a comprehensive and convenient overview of the key mathematical concepts notions tools and frameworks involved in the various fields of gray tone and binary image processing and analysis by proposing a large but coherent set of symbols and notations a complete list of subjects and a detailed bibliography It establishes a bridge between the pure and applied mathematical disciplines and the processing and analysis of gray tone and binary images It is accessible to readers who have neither extensive mathematical training nor peer knowledge in Image Processing and Analysis It is a self

contained book focusing on the mathematical notions concepts operations structures and frameworks that are beyond or involved in Image Processing and Analysis The notations are simplified as far as possible in order to be more explicative and consistent throughout the book and the mathematical aspects are systematically discussed in the image processing and analysis context through practical examples or concrete illustrations Conversely the discussed applicative issues allow the role of mathematics to be highlighted Written for a broad audience students mathematicians image processing and analysis specialists as well as other scientists and practitioners the author hopes that readers will find their own way of using the book thus providing a mathematical companion that can help mathematicians become more familiar with image processing and analysis and likewise image processing and image analysis scientists researchers and engineers gain a deeper understanding of mathematical notions and concepts

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