

Li M. Chen

# Digital and Discrete Geometry

Theory and Algorithms



Springer

# Digital And Discrete Geometry Theory And Algorithms

**Ullrich Köthe, Annick  
Montanvert, Pierre Soille**



## **Digital And Discrete Geometry Theory And Algorithms:**

*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

*Discrete Surfaces and Manifolds* Li Chen, 2004

**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 science and technology The topics covered in this encyclopedia include General and reference Hardware Computer systems organization Networks Software and its engineering Theory of computation Mathematics of computing Information systems Security and privacy Human centered computing Computing methodologies Applied computing Professional issues Leading figures in the history of computer science The encyclopedia is structured according to the ACM Computing Classification System CCS first published in 1988 but subsequently revised in 2012 This classification system is the most comprehensive and is considered the de facto ontological framework for the computing field The encyclopedia brings together the information and historical context that students practicing professionals researchers and academicians need to have a strong and solid foundation in all aspects of computer science and technology

**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

**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

**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

Proceedings of the ...ACM Symposium on Theory of Computing, 2003 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 *Mathematical Reviews*,2008 *Discrete and Computational Geometry, 2nd Edition* Satyan L.

Devadoss,Joseph O'Rourke,2025-07-08 The essential introduction to discrete and computational geometry now fully updated and expanded Discrete and Computational Geometry bridges the theoretical world of discrete geometry with the applications driven realm of computational geometry offering a comprehensive yet accessible introduction to this cutting edge frontier of mathematics and computer science Beginning with polygons and ending with polyhedra it explains how to capture the shape of data given by a set of points from convex hulls and triangulations to Voronoi diagrams geometric duality chains linkages and alpha complexes Connections to real world applications are made throughout and algorithms are presented independent of any programming language Now fully updated and expanded this richly illustrated textbook is an invaluable learning tool for students in mathematics computer science engineering and physics Now with new sections on duality and on computational topology Project suggestions at the end of every chapter Covers traditional topics as well as new and advanced material Features numerous full color illustrations exercises and fully updated unsolved problems Uniquely designed for a one semester class Accessible to college sophomores with minimal background Also suitable for more advanced students Online solutions manual available to instructors *Computer Analysis of Images and Patterns*,2005

*Computing Information Directory* Darlene Myers Hildebrandt,1996 *Proceedings*,1981 **Binary Digital Image Processing** Stéphane Marchand-Maillet,Yazid M. Sharaiha,1999-12-01 Binary Digital Image Processing is aimed at faculty postgraduate students and industry specialists It is both a text reference and a textbook that reviews and analyses the research output in this field of binary image processing It is aimed at both advanced researchers as well as educating the novice to this area The theoretical part of this book includes the basic principles required for binary digital image analysis The practical part which will take an algorithmic approach addresses problems which find applications beyond binary digital line image processing The book first outlines the theoretical framework underpinning the study of digital image processing with particular reference to those needed for line image processing The theoretical tools in the first part of the book set the stage for the second and third parts where low level binary image processing is addressed and then intermediate level processing of binary line images is studied The book concludes with some practical applications of this work by reviewing some industrial and software applications engineering drawing storage and primitive extraction fingerprint compression Outlines the theoretical framework underpinning the study of digital image processing with particular reference to binary line image processing Addresses low level binary image processing reviewing a number of essential characteristics of binary

digital images and providing solution procedures and algorithms Includes detailed reviews of topics in binary digital image processing with up to date research references in relation to each of the problems under study Includes some practical applications of this work by reviewing some common applications Covers a range of topics organised by theoretical field rather than being driven by problem definitions      **Applications of Discrete Geometry and Mathematical Morphology** Ullrich Köthe, Annick Montanvert, Pierre Soille, 2012-07-30 This book constitutes the refereed proceedings of the first Workshop on Applications of Discrete Geometry and Mathematical Morphology WADGMM 2010 held at the International Conference on Pattern Recognition in Istanbul Turkey in August 2010 The 11 revised full papers presented were carefully reviewed and selected from 25 submissions The book was specifically designed to promote interchange and collaboration between experts in discrete geometry mathematical morphology and potential users of these methods from other fields of image analysis and pattern recognition      Telecommunication Journal ,1990      **General Catalog -- University of California, Santa Cruz** University of California, Santa Cruz, 1992      *Theoretical Foundations of Computer Graphics and CAD* Rae A. Earnshaw, 1988

## Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Digital And Discrete Geometry Theory And Algorithms**

In a global inundated with displays and the cacophony of immediate interaction, the profound power and emotional resonance of verbal art often diminish in to obscurity, eclipsed by the constant barrage of sound and distractions. Yet, nestled within the lyrical pages of **Digital And Discrete Geometry Theory And Algorithms**, a interesting function of literary elegance that pulses with natural feelings, lies an unique trip waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that mesmerizing opus guides readers on an emotional odyssey, lightly exposing the latent possible and profound impact stuck within the delicate internet of language. Within the heart-wrenching expanse with this evocative analysis, we shall embark upon an introspective exploration of the book is key subjects, dissect its interesting writing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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