Voronoi Diagram

Svetlana N. Yanushkevich, Adrian Stoica, Vlad P. Shmerko, Denis V. Popel

Spatial Tessellations Atsuyuki Okabe, Barry Boots, Kokichi Sugihara, Sung Nok Chiu, 2009-09-25 Spatial data analysis is a fast growing area and Voronoi diagrams provide a means of naturally partitioning space into subregions to facilitate spatial data manipulation, modelling of spatial structures, pattern recognition and locational optimization. With such versatility, the Voronoi diagram and its relative, the Delaunay triangulation, provide valuable tools for the analysis of spatial data. This is a rapidly growing research area and in this fully updated second edition the authors provide an up-to-date and comprehensive unification of all the previous literature on the subject of Voronoi diagrams. Features: * Expands on the highly acclaimed first edition * Provides an up-to-date and comprehensive survey of the existing literature on Voronoi diagrams * Includes a useful compendium of applications * Contains an extensive bibliography A wide range of applications is discussed, enabling this book to serve as an important reference volume on this topic. The text will appeal to students and researchers studying spatial data in a number of areas, in particular, applied probability, computational geometry, and Geographic Information Science (GIS). This book will appeal equally to those whose interests in Voronoi diagrams are theoretical, practical or both.

Voronoi Diagrams and Delaunay Triangulations Franz Aurenhammer, Rolf Klein, Der-Tsai Lee, 2013-06-26 Voronoi diagrams partition space according to the influence certain sites exert on their environment. Since the 17th century, such structures play an important role in many areas like Astronomy, Physics, Chemistry, Biology, Ecology, Economics, Mathematics and Computer Science. They help to describe zones of political influence, to determine the hospital nearest to an accident site, to compute collision-free paths for mobile robots, to reconstruct curves and surfaces from sample points, to refine triangular meshes, and to design location strategies for competing markets. This unique book offers a state-of-the-art view of Voronoi diagrams and their structure, and it provides efficient algorithms towards their computation. Readers with an entry-level background in algorithms can enjoy a guided tour of gently increasing difficulty through a fascinating area. Lecturers might find this volume a welcome source for their courses on computational geometry. Experts are offered a broader view, including many alternative solutions, and up-to-date references to the existing literature; they might benefit in their own research or application development.

Generalized Voronoi Diagram: A Geometry-Based Approach to Computational Intelligence Marina L. Gavrilova, 2008-10-02 The year 2008 is a memorial year for Georgiy Vorono (1868-1908), with a number of events in the scientific community commemorating his tremendous contribution to the area of mathematics, especially number theory, through conferences and scientific gatherings in his honor. A notable event taking place in September 2008 a joint c- ference: the 5th Annual International Symposium on Voronoi Diagrams (ISVD) and the 4th International Conference on Analytic Number Theory and Spatial Tessel- tions held in Kyiv, Georgiy Vorono 's native land. The main ideas expressed by G. Vorono 's through his fundamental works have influenced and shaped the key dev- opments in computation geometry, image recognition, artificial intelligence, robotics, computational science, navigation

and obstacle avoidance, geographical information systems, molecular modeling, astrology, physics, quantum computing, chemical en- neering, material sciences, terrain modeling, biometrics and other domains. This book is intended to provide the reader with in-depth overview and analysis of the fundamental methods and techniques developed following G. Voronoi ideas, in the context of the vast and increasingly growing area of computational intelligence. It represents the collection of state-of-the art research methods merging the bridges between two areas: geometric computing through Voronoi diagrams and intelligent computation techniques, pushing the limits of current knowledge in the area, impr- ing on previous solutions, merging sciences together, and inventing new ways of approaching difficult applied problems.

Concrete and Abstract Voronoi Diagrams Rolf Klein,1989-12-20 The Voronoi diagram of a set of sites is a partition of the plane into regions, one to each site, such that the region of each site contains all points of the plane that are closer to this site than to the other ones. Such partitions are of great importance to computer science and many other fields. The challenge is to compute Voronoi diagrams quickly. The problem is that their structure depends on the notion of distance and the sort of site. In this book the author proposes a unifying approach by introducing abstract Voronoi diagrams. These are based on the concept of bisecting curves, which are required to have some simple properties that are actually possessed by most bisectors of concrete Voronoi diagrams. Abstract Voronoi diagrams can be computed efficiently and there exists a worst-case efficient algorithm of divide-and-conquer type that applies to all abstract Voronoi diagrams satisfying a certain constraint. The author shows that this constraint is fulfilled by the concrete diagrams based on large classes of metrics in the plane.

Transactions on Computational Science XIV Mir Abolfazl Mostafavi,2012-01-18 The 14th issue of the Transactions on Computational Science journal contains nine papers, all revised and extended versions of papers presented at the International Symposium on Voronoi Diagrams 2010, held in Quebec City, Canada, in June 2010. The topics covered include: the development of new generalized Voronoi diagrams and algorithms including round-trip Voronoi diagrams, maximal zone diagrams, Jensen-Bregman Voronoi diagrams, hyperbolic Voronoi diagrams, and moving network Voronoi diagrams; new algorithms based on Voronoi diagrams for applications in science and engineering, including geosensor networks deployment and optimization and homotopic object reconstruction; and the application of Delaunay triangulation for modeling and representation of Cosmic Web and rain fall distribution.

Transactions on Computational Science XX Marina L. Gavrilova, C.J. Kenneth Tan, Bahman Kalantari, 2013-10-23 This, the 20th issue of the Transactions on Computational Science journal, edited by Bahman Kalantari, is devoted to the topic of Voronoi Diagrams and their applications. The 10 full papers included in the volume are revised and extended versions of a selection of papers presented at the International Symposium on Voronoi Diagrams 2012, held in Rutgers, NJ, USA, in June 2012. They provide an in-depth overview of current research on topological data structures and a comprehensive evaluation of their applications in the fields of cartography, physics, material modeling, chemistry, GIS, motion planning and computer graphics.

Transactions on Computational Science IX C. J. Kenneth Tan, Francois Anton, 2010-09-22 The 9th issue of the Transactions on Computational Science journal, edited by François Anton, is devoted to the subject of Voronoi diagrams in science and engineering. The 9 papers included in the issue constitute extended versions of selected papers from the International Symposium on Voronoi Diagrams, held in Copenhagen, Denmark, June 23-36, 2009. Topics covered include: divide and conquer construction of Voronoi diagrams; new generalized Voronoi diagrams or properties of existing generalized Voronoi diagrams; and applications of Voronoi diagrams and their duals in graph theory, computer graphics, bioinformatics, and spatial process simulation.

Concrete and Abstract Voronoi Diagrams Rolf Klein, 2014-09-11

Computing Voronoi Diagram of Higher Order Geometric Objects Manoj Kumar M,2024-02-11 Voronoi diagrams, named after the Russian mathematician Georgy Feodosievych Voronoy, are geometric structures that have been extensively studied in Computational Geometry. A Voronoi diagram can be constructed for a set of geometric objects called sites. The geometric objects can be points, lines, circles, curves, surfaces, spheres, etc. A Voronoi diagram divides the space into regions called Voronoi cells such that there is a Voronoi cell corresponding to each object in the input set. A Voronoi cell is a set of points closer to the corresponding object than any other object in the input set. Applications of the Voronoi diagram can be seen in various fields of science and engineering. Voronoi diagram is used in the motion planning and collision avoidance for robotic motion. Candeloro used the Voronoi diagram of a point set in a 3D space to develop a path-planning system for Unmanned Underwater Vehicles (UUVs). In town planning, the Voronoi diagram can be used for the e□cient allocation of resources. Image segmentation and feature extraction are other areas where properties of the Voronoi diagram are utilized. similar applications can be seen in disease research and diagnosis. Voronoi diagram of a set of circles is used for sensor deployment where the radius of a circle represents the range of a sensor. It is also used in cable packing of electric wires to find the enclosing circle with a minimum radius.

Encyclopedia of GIS Shashi Shekhar, Hui Xiong, 2007-12-12 The Encyclopedia of GIS provides a comprehensive and authoritative guide, contributed by experts and peer-reviewed for accuracy, and alphabetically arranged for convenient access. The entries explain key software and processes used by geographers and computational scientists. Major overviews are provided for nearly 200 topics: Geoinformatics, Spatial Cognition, and Location-Based Services and more. Shorter entries define specific terms and concepts. The reference will be published as a print volume with abundant black and white art, and simultaneously as an XML online reference with hyperlinked citations, cross-references, four-color art, links to web-based maps, and other interactive features.

Computing in Euclidean Geometry Ding-Zhu Du, Frank Hwang, 1995 This book is a collection of surveys and exploratory articles about recent developments in the field of computational Euclidean geometry. Topics covered include the history of Euclidean geometry, Voronoi diagrams, randomized geometric algorithms, computational algebra, triangulations, machine proofs, topological designs, finite-element mesh, computer-aided geometric designs and Steiner trees. This second edition contains three new surveys covering geometric constraint solving,

computational geometry and the exact computation paradigm.

The Furthest-Site Geodesic Voronoi Diagram (Classic Reprint) Boris Aronov, 2015-08-04 Excerpt from The Furthest-Site Geodesic Voronoi Diagram A common goal of much recent research in computational geometry is to extend algorithms that have been developed for the Euclidean metric to the more complicated geodesic metric inside a simple polygon. The geodesic distance between two points in a simple polygon is the length of the shortest path connecting the points that remains inside the polygon. For example, Toussaint [T86] gives an algorithm for the relative convex hull of a set of points inside a simple polygon; Aronov [A87] gives an algorithm for the nearestneighbor geodesic Voronoi diagram; and Pollack, Sharir and Rote [PSR87] give an algorithm for the geodesic center of a simple polygon. A classic structure in the Euclidean metric is the furthest-site Voronoi diagram. Given a finite collection of point sites in the plane, the furthest-site Voronoi diagram partitions the plane into Voronoi cells, one cell per site. The site that owns a cell is the site that is furthest from every point in the cell. Using well-known algorithms, the Euclidean furthest-site Voronoi diagram of k sites can be computed in time 0 (k lo g k) and space 0 (k) [PS85]. The content of this paper is an efficient algorithm for computing the furthestsite Voronoi diagram, defined by the geodesic metric inside a simple polygon. The algorithm uses 0 ((n + k) log (n + k)) + k)) time and O (n + k) space, where n is the number of bounding edges of the polygon and k is the number of sites. The best previous algorithm for this problem had running time 0 (n-log log n) [AT86], and just computed (a superset of) the vertices of the furthest-site Voronoi diagram of the n corners of the polygon. We remark that our furthest-site geodesic Voronoi diagram algorithm is a factor of O (log n) faster than the best known nearest-site geodesic Voronoi diagram algorithm [A87]. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Computational Geometry Mark de Berg,2008-03-07 This introduction to computational geometry focuses on algorithms. Motivation is provided from the application areas as all techniques are related to particular applications in robotics, graphics, CAD/CAM, and geographic information systems. Modern insights in computational geometry are used to provide solutions that are both efficient and easy to understand and implement.

The Furthest-site Geodesic Voronoi Diagram Boris Aronov, Steven Fortune, Gordon Wilfong, 2018-02-07 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in

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Virtual Systems and Multimedia Theodor G. Wyeld, Sarah Kenderdine, Michael Docherty, 2008-03-03 This book constitutes the thoroughly refereed post-conference proceedings of the 13th International Conference on Virtual Systems and Multimedia, VSMM 2007, held in Brisbane, Australia, in September 2007. The 18 revised full papers presented were carefully reviewed and selected from 97 initial submissions during two rounds of reviewing and improvement. The papers put a special focus on virtual heritage and virtual cultures, virtual environments and virtual experiences, as well as on applied technologies and systems.

Voronoi Translated Georgi? Feodos?evich Vorono?, Peter Gustav Lejeune Dirichlet, 2001

Generalized Voronoi Diagrams for Moving a Ladder: I. Topological Analysis Courant Institute of Mathematical Sciences. Computer Science Department, C. O'Dunlaing, M. Sharir, C. K. Yap, 1984

Biometric Inverse Problems Svetlana N. Yanushkevich, Adrian Stoica, Vlad P. Shmerko, Denis V. Popel, 2018-10-08 Traditional methods of biometric analysis are unable to overcome the limitations of existing approaches, mainly due to the lack of standards for input data, privacy concerns involving use and storage of actual biometric data, and unacceptable accuracy. Exploring solutions to inverse problems in biometrics transcends such limits and allows rich analysis of biometric information and systems for improved performance and testing. Although some particular inverse problems appear in the literature, until now there has been no comprehensive reference for these problems. Biometric Inverse Problems provides the first comprehensive treatment of biometric data synthesis and modeling. This groundbreaking reference comprises eight self-contained chapters that cover the principles of biometric inverse problems; basics of data structure design; new automatic synthetic signature, fingerprint, and iris design; synthetic faces and DNA; and new tools for biometrics based on Voronoi diagrams. Based on the authors' vast experience in the field, the book authoritatively examines new approaches and methodologies in both direct and inverse biometrics, providing invaluable analytical and benchmarking tools. The authors include case studies, examples, and implementation codes for practical illustration of the methods. Loaded with approximately 200 figures, 60 problems, 50 MATLAB® code fragments, and 200 examples, Biometric Inverse Problems sets the standard for innovation and authority in biometric data synthesis, modeling, and analysis.

IPython Interactive Computing and Visualization Cookbook Cyrille Rossant,2014-09-25 Intended to anyone interested in numerical computing and data science: students, researchers, teachers, engineers, analysts, hobbyists... Basic knowledge of Python/NumPy is recommended. Some skills in mathematics will help you understand the theory behind the computational methods.

An O(n Log N) Algorithm for the Voronoi Diagram of a Set of Simple Curve Segments Chee K. Yap, 2016-09-15 Excerpt from An O(n Log N) Algorithm for the Voronoi Diagram of a Set of Simple Curve Segments: Preliminary Version Underlying technique of thb paper. We now give the basic idea of this paper. Recall from the abstract that the problem we solve is the following. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Unveiling the Power of Verbal Beauty: An Mental Sojourn through Voronoi Diagram

In a world inundated with monitors and the cacophony of quick transmission, the profound power and mental resonance of verbal art frequently fade in to obscurity, eclipsed by the constant onslaught of sound and distractions. However, nestled within the lyrical pages of **Voronoi Diagram**, a captivating perform of fictional splendor that pulses with raw thoughts, lies an wonderful journey waiting to be embarked upon. Written by a virtuoso wordsmith, that magical opus guides visitors on an emotional odyssey, softly exposing the latent potential and profound influence embedded within the complex internet of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is key subjects, dissect their interesting publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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Voronoi Diagram Introduction

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