

Øyvind Hjelle Morten Dæhlen

Triangulations and Applications

Mathematics — Visualization

 Springer

Triangulations And Applications Mathematics And Visualization

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Triangulations and Applications Øyvind Hjellev, Morten Dæhlen, 2006-09-19 This book will serve as a valuable source of information about triangulations for the graduate student and researcher With emphasis on computational issues it presents the basic theory necessary to construct and manipulate triangulations In particular the book gives a tour through the theory behind the Delaunay triangulation including algorithms and software issues It also discusses various data structures used for the representation of triangulations

Computational Geometry, Topology and Physics of Digital Images with Applications James F. Peters, 2019-10-03 This book discusses the computational geometry topology and physics of digital images and video frame sequences This trio of computational approaches encompasses the study of shape complexes optical vortex nerves and proximities embedded in triangulated video frames and single images while computational geometry focuses on the geometric structures that infuse triangulated visual scenes The book first addresses the topology of cellular complexes to provide a basis for an introductory study of the computational topology of visual scenes exploring the fabric shapes and structures typically found in visual scenes The book then examines the inherent geometry and topology of visual scenes and the fine structure of light and light caustics of visual scenes which bring into play catastrophe theory and the appearance of light caustic folds and cusps Following on from this the book introduces optical vortex nerves in triangulated digital images In this context computational physics is synonymous with the study of the fine structure of light choreographed in video frames This choreography appears as a sequence of snapshots of light reflected and refracted from surface shapes providing a solid foundation for detecting analyzing and classifying visual scene shapes

Advances in 3D Geo-Information Sciences Thomas H. Kolbe, Gerhard König, Claus Nagel, 2011-03-23 During the last decade developments in 3D Geoinformation have made substantial progress We are about to have a more complete spatial model and understanding of our planet in different scales Hence various communities and cities offer 3D landscape and city models as valuable source and instrument for sustainable management of rural and urban resources Also municipal utilities real estate companies etc benefit from recent developments related to 3D applications To meet the challenges due to the newest changes academics and practitioners met at the 5th International Workshop on 3D Geoinformation in order to present recent developments and to discuss future trends This book comprises a selection of evaluated high quality papers that were presented at this workshop in November 2010 The topics focus explicitly on the last achievements methods algorithms models systems with respect to 3D geo information requirements The book is aimed at decision makers and experts as well at students interested in the 3D component of geographical information science including GI engineers computer scientists photogrammetrists land surveyors urban planners and mapping specialists

Encyclopedia of Computer Graphics and Games Newton Lee, 2024-01-10 Encyclopedia of Computer Graphics and Games ECGG is a unique reference resource tailored to meet the needs of research and applications for industry professionals and academic communities worldwide The ECGG covers the

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Mathematical Methods for Curves and Surfaces Morten Dæhlen, Michael S. Floater, Tom Lyche, Jean-Louis Merrien, Knut Morken, Larry L. Schumaker, 2010-03-02 This volume constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Mathematical Methods for Curves and Surfaces MMCS 2008 held in T nsberg Norway in June July 2008 The 28 revised full papers presented were carefully reviewed and selected from 129 talks presented at the conference The topics addressed by the papers range from mathematical analysis of various methods to practical implementation on modern graphics processing units

Innovations in Computer Science and Engineering Harvinder Singh Saini, Rishi Sayal, Rajkumar Buyya, Govardhan Aliseri, 2020-03-03 This book features a collection of high quality peer reviewed research papers presented at the 7th International Conference on Innovations in Computer Science Engineering ICICSE 2019 held at Guru Nanak Institutions Hyderabad India on 16 17 August 2019 Written by researchers from academia and industry the book discusses a wide variety of industrial engineering and scientific applications of the emerging techniques in the field of computer science

Innovations for Shape Analysis Michael Breuß, Alfred Bruckstein, Petros Maragos, 2013-04-04 The concept of shape is at the heart of image processing and computer vision yet researchers still have some way to go to replicate the human brain s ability to extrapolate meaning from the most basic of outlines This volume reflects the advances of the last decade which have also opened up tough new challenges in image processing Today s applications require flexible models as well as efficient mathematically justified algorithms that allow data processing within an acceptable timeframe Examining important topics in continuous scale and discrete modeling as well as in modern algorithms the book is the product of a key seminar focused on innovations in the field It is a thorough introduction to the latest technology especially given the tutorial style of a number of chapters It also succeeds in identifying promising avenues for future research The topics covered include mathematical morphology skeletonization statistical shape

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Hagen,Heinrich Müller,1997 *Scientific Visualization* presents the state of the art in scientific visualization techniques both as an overview for the inquiring scientist and as a basic foundation for developers The three sections present an overview explain frameworks and methodologies and present techniques and algorithms Extensive bibliographies are included

Proceedings of the Tenth Workshop on Algorithm Engineering and Experiments and the Fifth Workshop on Analytic Algorithmics and Combinatorics Ian Munro,2008 *Information Visualization* IEEE Computer Society,1999 This volume offers coverage of the 1999 international conference on information visualization Topics include augmented and virtual reality visualization in construction computer aided geometric design design visualization digital art graphical modelling and applied visualization American Book Publishing Record ,2006 **Course Notes** ,1994 Scientific and Technical Aerospace Reports ,1994-03 *Proceedings* ,2005 **ACM Symposium on Solid and Physical Modeling** ,2005

Geographical Information Systems: Management issues and applications ,1999 **Computing Science and Statistics** ,1992 **Geomatica** ,2005 **Proceedings of the ... International Workshop on Advances in Geographic Information Systems** ,1997

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