

K Nearest Neighbors



Nearest Neighbor Classification In 3d Protein Databases

C. Stan Tsai



Nearest Neighbor Classification In 3d Protein Databases:

Database Modeling for Industrial Data Management: Emerging Technologies and Applications Ma, Zongmin,2005-12-31

This book covers industrial databases and applications and offers generic database modeling techniques Provided by publisher Three-Dimensional Model Analysis and Processing Faxin Yu,Zheming Lu,Hao Luo,Pinghui Wang,2011-02-03 With the increasing popularization of the Internet together with the rapid development of 3D scanning technologies and modeling tools 3D model databases have become more and more common in fields such as biology chemistry archaeology and geography People can distribute their own 3D works over the Internet search and download 3D model data and also carry out electronic trade over the Internet However some serious issues are related to this as follows 1 How to efficiently transmit and store huge 3D model data with limited bandwidth and storage capacity 2 How to prevent 3D works from being pirated and tampered with 3 How to search for the desired 3D models in huge multimedia databases This book is devoted to partially solving the above issues Compression is useful because it helps reduce the consumption of expensive resources such as hard disk space and transmission bandwidth On the downside compressed data must be decompressed to be used and this extra processing may be detrimental to some applications 3D polygonal mesh with geometry color normal vector and texture coordinate information as a common surface representation is now heavily used in various multimedia applications such as computer games animations and simulation applications To maintain a convincing level of realism many applications require highly detailed mesh models However such complex models demand broad network bandwidth and much storage capacity to transmit and store To address these problems 3D mesh compression is essential for reducing the size of 3D model

representation **ICT Innovations 2009** Danco Davcev,Jorge Marx Gómez,2010-01-06 This book is the result of the first International Conference ICT Innovations 2009 The ICT Innovations conference is the primary scientific action of the Macedonian Society on Information and Communication Technologies ICT ACT It promotes the publication of scientific results of the international community related to innovative fundamental and applied research in ICT Today ICT has enlarged its horizons and it is practiced under multidisciplinary contexts that introduce new challenges to theoretical and technical approaches The ICT Innovations 2009 conference gathered academics professionals and practitioners reporting their valuable experiences in developing solutions and systems in the industrial and business arena especially innovative commercial implementations novel applications of technology and experience in applying recent research advances to practical situations in any ICT areas The conference focuses on issues concerning a variety of ICT fields like Multimedia Information Systems Artificial Intelligence Pervasive and Ubiquitous Computing Eco and Bio Informatics Internet and Web Applications and Services Wireless and Mobile Communications and Services Computer Networks Security and Cryptography Distributed Systems GRID and Cloud Computing ICT Innovations 2009 Conference was held in Ohrid Macedonia in September 28 30 2009 Local arrangements provided by the members of the Macedonian Society on Information and Communication

Technologies ICT ACT mainly consisting of teaching and research staff of Computer Science Department at Faculty of Electrical Engineering and Information Technologies and Institute of Informatics at Faculty of Natural Sciences both at St Cyril and Methodius University in Skopje Macedonia

Proceedings Thomas Lengauer, 1999 **Image and Video Retrieval** Michael S. Lew, Nicu Sebe, John P. Eakins, 2002-07-03 Finally we are grateful to our sponsors the British Computer Society Information Retrieval Specialist Group the British Machine Vision Association BMVA the Institute for Image Data Research University of Northumbria the Institution of Electrical Engineers IEE and the Leiden Institute of Advanced Computer Science LIACS Leiden University May 2002 Michael S. Lew, Nicu Sebe, John P. Eakins International Conference on Image and Video Retrieval 2002 Organization Organizing Committee Organizing Committee Chair John P. Eakins University of Northumbria UK Technical Program Chair Michael S. **Machine Learning** Abdelhamid Mellouk, Abdennasser Chebira, 2009-01-01 Machine Learning can be defined in various ways related to a scientific domain concerned with the design and development of theoretical and implementation tools that allow building systems with some Human Like intelligent behavior Machine learning addresses more specifically the ability to improve automatically through experience

Advances in Spatial Databases Ralf H. Güting, Dimitris Papadias, Fred Lochovsky, 2003-05-21 This book constitutes the refereed proceedings of the 6th International Symposium on Spatial Databases SSD 99 held in Hong Kong China in July 1999 The 17 revised full papers presented were carefully selected from 55 submissions Also included are short papers corresponding to three invited talks and industrial applications presentations The papers are organized in chapters on multi resolution and scale indexing moving objects and spatio temporal data spatial mining and classification spatial join uncertainty and geological hypermaps and industrial and visionary application track **Proceedings of the ... ACM CIKM**, 2002

3D Object Processing Jean-Luc Dugelay, Atilla Baskurt, Mohamed Daoudi, 2008-06-03 The arrival and continuing evolution of high quality 3D objects has been made possible by recent progress in 3D scanner acquisition and 3D graphics rendering With this increasing quality comes a corresponding increase in the size and complexity of the data files and the necessity for advances in compression techniques Effective indexing to facilitate the retrieval of the 3D data is then required to efficiently store search and recapture the objects that have been compressed The application of 3D images in fields such as communications medicine and the military also calls for copyright protection or watermarking to secure the data for transmission Written by expert contributors this timely text brings together the three important and complementary topics of compression retrieval and watermarking techniques for 3D objects 3D object processing applications are developing rapidly and this book tackles the challenges and opportunities presented focusing on the secure transmission sharing and searching of 3D objects on networks and includes an introduction to the commonly used 3D representation schemes the characteristics advantages and limitations of polygonal meshes surface based models and volumetric models 3D compression techniques the 3D coding and decoding schemes for reducing the size of 3D data to reduce transmission time and minimize distortion state

of the art responses to the intrinsic challenges of building a 3D model search engine considering view based structural and full 3D approaches watermarking techniques for ensuring intellectual property protection and content security without altering the visual quality of the 3D object 3D Object Processing Compression Indexing and Watermarking is an invaluable resource for graduate students and researchers working in signal and image processing computer aided design animation and imaging systems Practising engineers who want to expand their knowledge of 3D video objects including data compression indexing security and copyrighting of information will also find this book of great use *Advances in Spatial Databases* ,1999 *Proceedings* ,2001 *Image and Video Retrieval* ,2005 *Journal of Zhejiang University* ,2006

Biomacromolecules C. Stan Tsai,2007 Provides an integrated presentation of the structure and function of nucleic acids proteins and glycans including the latest findings from the fields of genomics proteomics and glycomics It serves as a bridge between introductory biochemistry textbooks and advanced treatises on individual classes of biomacromolecules The integrated treatment of biomacromolecules enables the reader to gain a better understanding and appreciation of both the similarities and differences among the three classes of biomacromolecules examined in the text **Proceedings ... International Conference on Database Systems for Advanced Applications** ,2003 **ISMB-97** ,1997 *Chemical Abstracts* ,2002 *Chinese journal of computers* ,2004 *2001 IEEE International Conference on Data Mining* Nick Cercone,Tsau Y. Lin,Xindong Wu,2001 This proceedings of the November 2001 conference explores the design analysis and implementation of data mining theory and systems The 72 regular papers and 37 posters discuss data mining algorithms data and knowledge representation modeling of data to support data mining scalability issues st *Proceedings of the Seventh SIAM International Conference on Data Mining* Chid Apte,Bing Liu,Srinivasan Parthasarathy,2007 The Seventh SIAM International Conference on Data Mining SDM 2007 continues a series of conferences whose focus is the theory and application of data mining to complex datasets in science engineering biomedicine and the social sciences These datasets challenge our abilities to analyze them because they are large and often noisy Sophisticated highperformance and principled analysis techniques and algorithms based on sound statistical foundations are required Visualization is often critically important tuning for performance is a significant challenge and the appropriate levels of abstraction to allow end users to exploit sophisticated techniques and understand clearly both the constraints and interpretation of results are still something of an open question

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