

COMPUTATIONAL IMAGING AND VISION

Ridges in Image and Data Analysis

David Eberly

Kluwer Academic Publishers

Ridges In Image And Data Analysis

**Ronald Peikert, Helwig Hauser, Hamish
Carr, Raphael Fuchs**



Ridges In Image And Data Analysis:

Ridges in Image and Data Analysis D. Eberly, 2012-12-06 The concept of ridges has appeared numerous times in the image processing literature Sometimes the term is used in an intuitive sense Other times a concrete definition is provided In almost all cases the concept is used for very specific applications When analyzing images or data sets it is very natural for a scientist to measure critical behavior by considering maxima or minima of the data These critical points are relatively easy to compute Numerical packages always provide support for root finding or optimization whether it be through bisection Newton's method conjugate gradient method or other standard methods It has not been natural for scientists to consider critical behavior in a higher order sense The concept of ridge as a manifold of critical points is a natural extension of the concept of local maximum as an isolated critical point However almost no attention has been given to formalizing the concept There is a need for a formal development There is a need for understanding the computation issues that arise in the implementations The purpose of this book is to address both needs by providing a formal mathematical foundation and a computational framework for ridges The intended audience for this book includes anyone interested in exploring the usefulness of ridges in data analysis

Ridges in Image and Data Analysis D Eberly, 1996-09-30 This book provides a thorough development of ridges and their application to image and data analysis The text is self contained by including a chapter on the necessary mathematical background chapters on the formal ridge definitions in any geometric setting and a chapter on the numerical implementation An applications chapter covers three separate topics medical image analysis molecular modeling and analysis of fluid flow Audience The book is intended primarily for computer vision and image processing scientists with a background in mathematics and scientific computation However ridges provide a general purpose tool for multidimensional data analysis so the book will be of interest to practitioners in any field which requires the analyzing of data such as statistics the physical sciences or engineering

Pattern Recognition and Data Mining Sameer Singh, Maneesha Singh, Chid Apte, Petra Perner, 2005-09-16 This LNCS volume contains the papers presented at the 3rd International Conference on Advances in Pattern Recognition ICAPR 2005 organized in August 2005 in the beautiful city of Bath UK

Scale-Space and Morphology in Computer Vision Michael Kerckhove, 2003-05-15 This book constitutes the refereed proceedings of the Third International Conference on Scale Space and Morphology in Computer Vision Scale Space 2001 held in Vancouver Canada in July 2001 The 18 revised full papers presented together with 23 posters were carefully reviewed and selected from 60 submissions The book addresses all current aspects of scale space and morphology in the context of computer vision in particular vector distance functions optic flow image registration curve evolution morphological segmentation scalar images vector images automatic scale selection geometric diffusion diffusion filtering image filtering inverse problems active contours etc

Advanced Concepts for Intelligent Vision Systems Jacques Blanc-Talon, Rudi Penne, Wilfried Philips, Dan Popescu, Paul Scheunders, 2017-11-22 This book constitutes the refereed proceedings of the 18th International Conference on

Advanced Concepts for Intelligent Vision Systems ACIVS 2017 held in Antwerp Belgium in September 2017 The 63 full papers presented in this volume were carefully selected from 134 submissions They deal with human computer interaction classification and recognition navigation mapping robotics and transports video processing and retrieval security forensics surveillance and image processing

New Developments in the Visualization and Processing of Tensor Fields David H. Laidlaw, Anna Vilanova, 2012-09-14 Bringing together key researchers in disciplines ranging from visualization and image processing to applications in structural mechanics fluid dynamics elastography and numerical mathematics the workshop that generated this edited volume was the third in the successful Dagstuhl series Its aim reflected in the quality and relevance of the papers presented was to foster collaboration and fresh lines of inquiry in the analysis and visualization of tensor fields which offer a concise model for numerous physical phenomena Despite their utility there remains a dearth of methods for studying all but the simplest ones a shortage the workshops aim to address Documenting the latest progress and open research questions in tensor field analysis the chapters reflect the excitement and inspiration generated by this latest Dagstuhl workshop held in July 2009 The topics they address range from applications of the analysis of tensor fields to purer research into their mathematical and analytical properties They show how cooperation and the sharing of ideas and data between those engaged in pure and applied research can open new vistas in the study of tensor fields

Scale Space and Variational Methods in Computer Vision Fiorella Sgallari, Almerico Murli, 2007-05-24 This book constitutes the refereed proceedings of the First International Conference on Scale Space Methods and Variational Methods in Computer Vision SSVM 2007 emanated from the joint edition of the 4th International Workshop on Variational Geometric and Level Set Methods in Computer Vision VLISM 2007 and the 6th International Conference on Scale Space and PDE Methods in Computer Vision Scale Space 2007 held in Ischia Italy May June 2007

Scale-Space Theories in Computer Vision Mads Nielsen, Peter Johansen, Ole F. Olsen, Joachim Weickert, 2003-06-26 This volume constitutes the refereed proceedings of the Second International Conference on Scale Space Theories in Computer Vision Scale Space 99 held in Corfu Greece in September 1999 The 36 revised full papers and the 18 revised posters presented in the book were carefully reviewed and selected from 66 high quality submissions The book addresses all current aspects of this young and active field in particular geometric Image flows nonlinear diffusion functional minimization linear scale space etc

Advances in Information and Intelligent Systems Zbigniew W Ras, William Ribarsky, 2009-10-12 The College of Computing and Informatics CCI at UNC Charlotte has three departments Computer Science Software and Information Systems and Bioinformatics and Genomics The Department of Computer Science offers study in a variety of specialized computing areas such as database design knowledge systems computer graphics artificial intelligence computer networks game design visualization computer vision and virtual reality The Department of Software and Information Systems is primarily focused on the study of technologies and methodologies for information system architecture design implementation integration and management with particular

emphasis on system security The Department of Bioinformatics and Genomics focuses on the discovery development and application of novel computational technologies to help solve important biological problems This volume gives an overview of research done by CCI faculty in the area of Information Intelligent Systems Presented papers focus on recent advances in four major directions Complex Systems Knowledge Management Knowledge Discovery and Visualization A major reason for producing this book was to demonstrate a new important thrust in academic research where college wide interdisciplinary efforts are brought to bear on large general and important problems As shown in the research described here these efforts need not be formally organized joint undertakings through parts could be but are rather a convergence of interests around grand themes

Discrete Geometry for Computer Imagery Michel Couprie, Jean Cousty, Yukiko Kenmochi, Nabil Mustafa, 2019-03-19 This book constitutes the thoroughly refereed proceedings of the 21st IAPR International Conference on Discrete Geometry for Computer Imagery DGCI 2019 held in Marne la Vall e France in March 2019 The 38 full papers were carefully selected from 50 submissions The papers are organized in topical sections on discrete geometric models and transforms discrete topology graph based models analysis and segmentation mathematical morphology shape representation recognition and analysis and geometric computation

Brain Mapping, 2015-02-14 Brain Mapping A Comprehensive Reference Three Volume Set offers foundational information for students and researchers across neuroscience With over 300 articles and a media rich environment this resource provides exhaustive coverage of the methods and systems involved in brain mapping fully links the data to disease presenting side by side maps of healthy and diseased brains for direct comparisons and offers data sets and fully annotated color images Each entry is built on a layered approach of the content basic information for those new to the area and more detailed material for experienced readers Edited and authored by the leading experts in the field this work offers the most reputable easily searchable content with cross referencing across articles a one stop reference for students researchers and teaching faculty Broad overview of neuroimaging concepts with applications across the neurosciences and biomedical research Fully annotated color images and videos for best comprehension of concepts Layered content for readers of different levels of expertise Easily searchable entries for quick access of reputable information Live reference links to ScienceDirect Scopus and PubMed

Visualization in Medicine and Life Sciences III Lars Linsen, Bernd Hamann, Hans-Christian Hege, 2016-05-21 The book discusses novel visualization techniques driven by the needs in medicine and life sciences as well as new application areas and challenges for visualization within these fields It presents ideas and concepts for visual analysis of data from scientific studies of living organs or to the delivery of healthcare Target scientific domains include the entire field of biology at all scales from genes and proteins to organs and populations as well as interdisciplinary research based on technological advances such as bioinformatics biomedicine biochemistry or biophysics Moreover they comprise the field of medicine and the application of science and technology to healthcare problems This book does not only present basic research pushing the state of the art in the field of

visualization but it also documents the impact in the fields of medicine and life sciences Diffusion MRI Heidi Johansen-Berg, Timothy E.J. Behrens, 2013-11-04 Diffusion MRI remains the most comprehensive reference for understanding this rapidly evolving and powerful technology and is an essential handbook for designing analyzing and interpreting diffusion MR experiments Diffusion imaging provides a unique window on human brain anatomy This non invasive technique continues to grow in popularity as a way to study brain pathways that could never before be investigated in vivo This book covers the fundamental theory of diffusion imaging discusses its most promising applications to basic and clinical neuroscience and introduces cutting edge methodological developments that will shape the field in coming years Written by leading experts in the field it places the exciting new results emerging from diffusion imaging in the context of classical anatomical techniques to show where diffusion studies might offer unique insights and where potential limitations lie Fully revised and updated edition of the first comprehensive reference on a powerful technique in brain imaging Covers all aspects of a diffusion MRI study from acquisition through analysis to interpretation and from fundamental theory to cutting edge developments New chapters covering connectomics advanced diffusion acquisition artifact removal and applications to the neonatal brain Provides practical advice on running an experiment Includes discussion of applications in psychiatry neurology neurosurgery and basic neuroscience Full color throughout

Topology-Based Methods in Visualization II Hans-Christian Hege, Konrad Polthier, Gerik Scheuermann, 2009-02-07 Visualization research aims to provide insight into large complicated data sets and the phenomena behind them While there are different methods of reaching this goal topological methods stand out for their solid mathematical foundation which guides the algorithmic analysis and its presentation Topology based methods in visualization have been around since the beginning of visualization as a scientific discipline but they initially played only a minor role In recent years interest in topology based visualization has grown and significant innovation has led to new concepts and successful applications The latest trends adapt basic topological concepts to precisely express user interests in topological properties of the data This book is the outcome of the second workshop on Topological Methods in Visualization which was held March 4-6 2007 in Kloster Nimbschen near Leipzig Germany The workshop brought together more than 40 international researchers to present and discuss the state of the art and new trends in the field of topology based visualization Two inspiring invited talks by George Haller MIT and Nelson Max LLNL were accompanied by 14 presentations by participants and two panel discussions on current and future trends in visualization research This book contains thirteen research papers that have been peer reviewed in a two stage review process In the first phase submitted papers were peer reviewed by the international program committee After the workshop accepted papers went through a revision and a second review process taking into account comments from the first round and discussions at the workshop About half the papers concern topology based analysis and visualization of fluid flows simulations two papers concern more general topological algorithms while the remaining papers discuss topology based visualization

methods in application areas like biology medical imaging and electromagnetism Topological Methods in Data Analysis and Visualization II Ronald Peikert, Helwig Hauser, Hamish Carr, Raphael Fuchs, 2012-01-10 When scientists analyze datasets in a search for underlying phenomena patterns or causal factors their first step is often an automatic or semi automatic search for structures in the data Of these feature extraction methods topological ones stand out due to their solid mathematical foundation Topologically defined structures as found in scalar vector and tensor fields have proven their merit in a wide range of scientific domains and scientists have found them to be revealing in subjects such as physics engineering and medicine Full of state of the art research and contemporary hot topics in the subject this volume is a selection of peer reviewed papers originally presented at the fourth Workshop on Topology Based Methods in Data Analysis and Visualization TopoInVis 2011 held in Zurich Switzerland The workshop brought together many of the leading lights in the field for a mixture of formal presentations and discussion One topic currently generating a great deal of interest and explored in several chapters here is the search for topological structures in time dependent flows and their relationship with Lagrangian coherent structures Contributors also focus on discrete topologies of scalar and vector fields and on persistence based simplification among other issues of note The new research results included in this volume relate to all three key areas in data analysis theory algorithms and applications Innovations in Data Analytics Abhishek Bhattacharya, Soumi Dutta, Paramartha Dutta, Debabrata Samanta, 2024-07-20 This book features research papers presented at the 2nd International Conference on Innovations in Data Analytics ICIDA 2023 held at Eminent College of Management and Technology ECMT West Bengal India during 29 30 November 2023 The book presents original research work in the areas of computational intelligence advance computing network security and telecommunication data science and data analytics and pattern recognition The book is beneficial for readers from both academia and industry **Knowledge-Based Systems, Four-Volume Set** Cornelius T. Leondes, 2000-07-11 The design of knowledge systems is finding myriad applications from corporate databases to general decision support in areas as diverse as engineering manufacturing and other industrial processes medicine business and economics In engineering for example knowledge bases can be utilized for reliable electric power system operation In medicine they support complex diagnoses while in business they inform the process of strategic planning Programmed securities trading and the defeat of chess champion Kasparov by IBM's Big Blue are two familiar examples of dedicated knowledge bases in combination with an expert system for decision making With volumes covering Implementation Optimization Computer Techniques and Systems and Applications this comprehensive set constitutes a unique reference source for students practitioners and researchers in computer science engineering and the broad range of applications areas for knowledge based systems Understanding ocean ridges, a new frontier for science and development Philip Weaver, David Billett, Pei-Yuan Qian, Jozee Sarrazin, 2023-06-30 Pattern Recognition and Data Analysis with Applications Deepak Gupta, Rajat Subhra Goswami, Subhasish Banerjee, M. Tanveer, Ram Bilas Pachori, 2022-09-01 This book

covers latest advancements in the areas of machine learning computer vision pattern recognition computational learning theory big data analytics network intelligence signal processing and their applications in real world The topics covered in machine learning involves feature extraction variants of support vector machine SVM extreme learning machine ELM artificial neural network ANN and other areas in machine learning The mathematical analysis of computer vision and pattern recognition involves the use of geometric techniques scene understanding and modelling from video 3D object recognition localization and tracking medical image analysis and so on Computational learning theory involves different kinds of learning like incremental online reinforcement manifold multi task semi supervised etc Further it covers the real time challenges involved while processing big data analytics and stream processing with the integration of smart data computing services and interconnectivity Additionally it covers the recent developments to network intelligence for analyzing the network information and thereby adapting the algorithms dynamically to improve the efficiency In the last it includes the progress in signal processing to process the normal and abnormal categories of real world signals for instance signals generated from IoT devices smart systems speech videos etc and involves biomedical signal processing electrocardiogram ECG electroencephalogram EEG magnetoencephalography MEG and electromyogram EMG *Computer Graphics International*
Franz-Erich Wolter,1998

Ridges In Image And Data Analysis Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Ridges In Image And Data Analysis**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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