

Special Issue Reprint

Mathematical Methods and Applications for Artificial Intelligence and Computer Vision

Edited by
Ezequiel López-Rubio, Esteban J. Palomo and Enrique Domínguez

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Mathematical Methods In Computer Vision

**Milan Sonka, Ioannis A. Kakadiaris, Jan
Kybic**



Mathematical Methods In Computer Vision:

Mathematical Methods in Computer Vision Peter J. Olver, Allen Tannenbaum, 2010-11-16 This volume comprises some of the key work presented at two IMA Workshops on Computer Vision during fall of 2000 Recent years have seen significant advances in the application of sophisticated mathematical theories to the problems arising in image processing Basic issues include image smoothing and denoising image enhancement morphology image compression and segmentation determining boundaries of objects including problems of camera distortion and partial occlusion Several mathematical approaches have emerged including methods based on nonlinear partial differential equations stochastic and statistical methods and signal processing techniques including wavelets and other transform theories Shape theory is of fundamental importance since it is the bottleneck between high and low level vision and formed the bridge between the two workshops on vision The recent geometric partial differential equation methods have been essential in throwing new light on this very difficult problem area Further stochastic processes including Markov random fields have been used in a Bayesian framework to incorporate prior constraints on smoothness and the regularities of discontinuities into algorithms for image restoration and reconstruction A number of applications are considered including optical character and handwriting recognizers printed circuit board inspection systems and quality control devices motion detection robotic control by visual feedback reconstruction of objects from stereoscopic view and or motion autonomous road vehicles and many others

Mathematical Methods in Computer Vision Peter J. Olver, 2003-10 Comprises some of the key work presented at two IMA Workshops on Computer Vision during fall of 2000 Pref **Handbook of Mathematical Models in Computer Vision** Nikos Paragios, Yunmei Chen, Olivier D. Faugeras, 2006-01-16 Abstract Biological vision is a rather fascinating domain of research Scientists of various origins like biology medicine neurophysiology engineering mathematics etc aim to understand the processes leading to visual perception process and at reproducing such systems Understanding the environment is most of the time done through visual perception which appears to be one of the most fundamental sensory abilities in humans and therefore a significant amount of research effort has been dedicated towards modelling and reproducing human visual abilities Mathematical methods play a central role in this endeavour Introduction David Marr's theory was a pioneering step towards understanding visual perception In his view human vision was based on a complete surface reconstruction of the environment that was then used to address visual subtasks This approach was proven to be insufficient by neurobiologists and complementary ideas from statistical pattern recognition and artificial intelligence were introduced to better address the visual perception problem In this framework visual perception is represented by a set of actions and rules connecting these actions The emerging concept of active vision consists of a selective visual perception paradigm that is basically equivalent to recovering from the environment the minimal piece of information required to address a particular task of interest

Mathematical Methods for Signal and Image Analysis and Representation Luc Florack, Remco Duits, Geurt

Jongbloed, Marie Colette van Lieshout, Laurie Davies, 2012-01-13 *Mathematical Methods for Signal and Image Analysis and Representation* presents the mathematical methodology for generic image analysis tasks. In the context of this book an image may be any m dimensional empirical signal living on an n dimensional smooth manifold typically but not necessarily a subset of spacetime. The existing literature on image methodology is rather scattered and often limited to either a deterministic or a statistical point of view. In contrast this book brings together these seemingly different points of view in order to stress their conceptual relations and formal analogies. Furthermore it does not focus on specific applications although some are detailed for the sake of illustration but on the methodological frameworks on which such applications are built making it an ideal companion for those seeking a rigorous methodological basis for specific algorithms as well as for those interested in the fundamental methodology per se. Covering many topics at the forefront of current research including anisotropic diffusion filtering of tensor fields this book will be of particular interest to graduate and postgraduate students and researchers in the fields of computer vision, medical imaging and visual perception.

Handbook of Mathematical Models and Algorithms in Computer Vision and Imaging Ke Chen, Carola-Bibiane Schönlieb, Xue-Cheng Tai, Laurent Younes, 2023-02-24 This handbook gathers together the state of the art on mathematical models and algorithms for imaging and vision. Its emphasis lies on rigorous mathematical methods which represent the optimal solutions to a class of imaging and vision problems and on effective algorithms which are necessary for the methods to be translated to practical use in various applications. Viewing discrete images as data sampled from functional surfaces enables the use of advanced tools from calculus functions and calculus of variations and nonlinear optimization and provides the basis of high resolution imaging through geometry and variational models. Besides optimization naturally connects traditional model driven approaches to the emerging data driven approaches of machine and deep learning. No other framework can provide comparable accuracy and precision to imaging and vision. Written by leading researchers in imaging and vision the chapters in this handbook all start with gentle introductions which make this work accessible to graduate students. For newcomers to the field the book provides a comprehensive and fast track introduction to the content to save time and get on with tackling new and emerging challenges. For researchers exposure to the state of the art of research works leads to an overall view of the entire field so as to guide new research directions and avoid pitfalls in moving the field forward and looking into the next decades of imaging and information services. This work can greatly benefit graduate students, researchers and practitioners in imaging and vision, applied mathematicians, medical imagers, engineers and computer scientists.

Computer Vision and Mathematical Methods in Medical and Biomedical Image Analysis Milan Sonka, Ioannis A. Kakadiaris, Jan Kybic, 2004-09-20 Medical imaging and medical image analysis are rapidly developing. While medical imaging has already become a standard of modern medical care, medical image analysis is still mostly performed visually and qualitatively. The ever increasing volume of acquired data makes it impossible to utilize them in full. Equally important the visual approaches to medical image analysis are known to suffer from a

lack of reproducibility A significant research effort is devoted to developing algorithms for processing the wealth of data available and extracting the relevant information in a computerized and quantitative fashion Medical imaging and image analysis are interdisciplinary areas combining electrical computer and biomedical engineering computer science mathematics physics statistics biology medicine and other fields Medical imaging and computer vision interestingly enough have developed and continue developing somewhat independently Nevertheless bringing them together promises to benefit both of these fields We were enthusiastic when the organizers of the 2004 European Conference on Computer Vision ECCV allowed us to organize a satellite workshop devoted to medical image analysis

Variational, Geometric, and Level Set Methods in Computer Vision Nikos Paragios, Olivier Faugeras, Tony Chan, Christoph Schnörr, 2005-10-13 Mathematical methods have been a dominant research path in computational vision leading to a number of areas like filtering segmentation motion analysis and stereo reconstruction Within such a branch visual perception tasks can either be addressed through the introduction of application driven geometric flows or through the minimization of problem driven cost functions where their lowest potential corresponds to image understanding The 3rd IEEE Workshop on Variational Geometric and Level Set Methods focused on these novel mathematical techniques and their applications to computer vision problems To this end from a substantial number of submissions 30 high quality papers were selected after a fully blind review process covering a large spectrum of computer aided visual understanding of the environment The papers are organized into four thematic areas i Image Filtering and Reconstruction ii Segmentation and Grouping iii Registration and Motion Analysis and iv 3D and Reconstruction In the first area solutions to image enhancement inpainting and compression are presented while more advanced applications like model free and model based segmentation are presented in the segmentation area Registration of curves and images as well as multi frame segmentation and tracking are part of the motion understanding track while introducing computational processes in manifolds shape from shading calibration and stereo reconstruction are part of the 3D track We hope that the material presented in the proceedings exceeds your expectations and will influence your research directions in the future We would like to acknowledge the support of the Imaging and Visualization Department of Siemens Corporate Research for sponsoring the Best Student Paper Award

Computer Vision and Mathematical Methods in Medical and Biomedical Image Analysis Milan Sonka, Ioannis A. Kakadiaris, Jan Kybic, 2004-10-04 Medical imaging and medical image analysis are rapidly developing While medical imaging has already become a standard of modern medical care medical image analysis is still mostly performed visually and qualitatively The ever increasing volume of acquired data makes it impossible to utilize them in full Equally important the visual approaches to medical image analysis are known to suffer from a lack of reproducibility A significant research effort is devoted to developing algorithms for processing the wealth of data available and extracting the relevant information in a computerized and quantitative fashion Medical imaging and image analysis are interdisciplinary areas combining electrical computer and biomedical engineering computer science mathematics

physics statistics biology medicine and other elds Medical imaging and computer vision interestingly enough have developed and continue developing somewhat independently Nevertheless bringing them together promises to b e t both of these elds We were enthusiastic when the organizers of the 2004 European Conference on Computer Vision ECCV allowed us to organize a satellite workshop devoted to medical image analysis *Mathematical Methods and Applications for Artificial Intelligence and Computer Vision* Ezequiel López-Rubio,Esteban J Palomo,Enrique Domínguez,2024-01-25 This Reprint comprises all of the accepted articles published as part of the Special Issue Mathematical Methods and Applications for Artificial Intelligence and Computer Vision The aim of this Special Issue was to publish recent theoretical and applied studies in computational intelligence and related fields with a particular focus on computer vision Our goal was to inspire researchers in this community to further their research in the field of artificial intelligence and computer vision while also encouraging the exploration of their valuable applications across various fields and disciplines We hope that the included papers will stimulate further research and development in the domains of artificial intelligence and computer vision

Mathematical Methods in Image Processing and Inverse Problems Xue-Cheng Tai,Suhua Wei,Haiguang Liu,2021-09-25 This book contains eleven original and survey scientific research articles arose from presentations given by invited speakers at International Workshop on Image Processing and Inverse Problems held in Beijing Computational Science Research Center Beijing China April 21 24 2018 The book was dedicated to Professor Raymond Chan on the occasion of his 60th birthday The contents of the book cover topics including image reconstruction image segmentation image registration inverse problems and so on Deep learning PDE statistical theory based research methods and techniques were discussed The state of the art developments on mathematical analysis advanced modeling efficient algorithm and applications were presented The collected papers in this book also give new research trends in deep learning and optimization for imaging science It should be a good reference for researchers working on related problems as well as for researchers working on computer vision and visualization inverse problems image processing and medical imaging **Geodesic Methods in Computer Vision and Graphics** Gabriel Peyré,Mickael Péchaud,Renaud Keriven,Laurent D. Cohen,2010 Reviews the emerging field of geodesic methods and features the following explanations of the mathematical foundations underlying these methods discussion on the state of the art algorithms to compute shortest paths review of several fields of application including medical imaging segmentation 3 D surface sampling and shape retrieval **Handbook of Mathematical Methods in Imaging** Otmar Scherzer,2010-11-23 The Handbook of Mathematical Methods in Imaging provides a comprehensive treatment of the mathematical techniques used in imaging science The material is grouped into two central themes namely Inverse Problems Algorithmic Reconstruction and Signal and Image Processing Each section within the themes covers applications modeling mathematics numerical methods using a case example and open questions Written by experts in the area the presentation is mathematically rigorous The entries are cross referenced for easy navigation through

connected topics Available in both print and electronic forms the handbook is enhanced by more than 150 illustrations and an extended bibliography It will benefit students scientists and researchers in applied mathematics Engineers and computer scientists working in imaging will also find this handbook useful

Numerical Algorithms Justin Solomon,2015-06-24

Numerical Algorithms Methods for Computer Vision Machine Learning and Graphics presents a new approach to numerical analysis for modern computer scientists Using examples from a broad base of computational tasks including data processing computational photography and animation the textbook introduces numerical modeling and algorithmic design

Graph-Based Methods in Computer Vision: Developments and Applications Bai, Xiao,Cheng, Jian,Hancock, Edwin,2012-07-31 Computer vision the science and technology of machines that see has been a rapidly developing research area since the mid 1970s It focuses on the understanding of digital input images in many forms including video and 3 D range data Graph Based Methods in Computer Vision Developments and Applications presents a sampling of the research issues related to applying graph based methods in computer vision These methods have been under utilized in the past but use must now be increased because of their ability to naturally and effectively represent image models and data This publication explores current activity and future applications of this fascinating and ground breaking topic

Energy

Minimization Methods in Computer Vision and Pattern Recognition Anders Heyden,Fredrik Kahl,Carl Olsson,Magnus Oskarsson,Xue-Cheng Tai,2013-08-16 This volume constitutes the refereed proceedings of the 9th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition EMMCVPR 2013 held in Lund Sweden in August 2013 The 26 revised full papers were carefully reviewed and selected from 40 submissions The papers are organized in topical sections on Medical Imaging Image Editing 3D Reconstruction Shape Matching Scene Understanding Segmentation Superpixels Statistical Methods and Learning

Scale Space Methods in Computer Vision Lewis D.

Griffin,Martin Lillholm,2007-10-06 The refereed proceedings of the 4th International Conference on Scale Space Methods in Computer Vision Scale Space 2003 held at Isle of Skye UK in June 2003 The 56 revised full papers presented were carefully reviewed and selected from 101 submissions The book offers topical sections on deep structure representations scale space mathematics equivalences implementing scale spaces minimal approaches evolution equations local structure image models morphological scale spaces temporal scale spaces shape and motion and stereo

Mathematical Methods for Objects

Reconstruction Emiliano Cristiani,Maurizio Falcone †,Silvia Tozza,2023-07-31 The volume collects several contributions to the INDAM workshop Mathematical Methods for Objects Reconstruction from 3D Vision to 3D Printing held in Rome February 2021 The goal of the workshop was to discuss new methods and conceptual structures for managing these challenging problems The chapters reflect this goal and the authors are academic researchers and some experts from industry working in the areas of 3D modeling computer vision 3D printing and or developing new mathematical methods for these problems The contributions present methodologies and challenges raised by the emergence of large scale 3D

reconstruction applications and low cost 3D printers The volume collects complementary knowledges from different areas of mathematics computer science and engineering on research topics related to 3D printing which are so far widely unexplored Young researchers and future scientific leaders in the field of 3D data acquisition 3D scene reconstruction and 3D printing software development will find an excellent introduction to these problems and to the mathematical techniques necessary to solve them

Scale Space and Variational Methods in Computer Vision Arjan Kuijper, Kristian Bredies, Thomas Pock, Horst Bischof, 2013-05-20 This book constitutes the refereed proceedings of the 4th International Conference on Scale Space Methods and Variational Methods in Computer Vision SSVM 2013 held in Schloss Seggau near Graz Austria in June 2013 The 42 revised full papers presented were carefully reviewed and selected 69 submissions The papers are organized in topical sections on image denoising and restoration image enhancement and texture synthesis optical flow and 3D reconstruction scale space and partial differential equations image and shape analysis and segmentation

Scale Space and Variational Methods in Computer Vision Alfred M. Bruckstein, Bart M. ter Haar Romeny, Alexander M. Bronstein, Michael M. Bronstein, 2012-01-09 This book constitutes the thoroughly refereed post conference proceedings of the Third International Conference on Scale Space Methods and Variational Methods in Computer Vision SSVM 2011 held in Ein Gedi Israel in May June 2011 The 24 revised full papers presented together with 44 poster papers were carefully reviewed and selected from 78 submissions The papers are organized in topical sections on denoising and enhancement segmentation image representation and invariants shape analysis and optical flow

Riemannian Computing in Computer Vision Pavan K. Turaga, Anuj Srivastava, 2015-11-09 This book presents a comprehensive treatise on Riemannian geometric computations and related statistical inferences in several computer vision problems This edited volume includes chapter contributions from leading figures in the field of computer vision who are applying Riemannian geometric approaches in problems such as face recognition activity recognition object detection biomedical image analysis and structure from motion Some of the mathematical entities that necessitate a geometric analysis include rotation matrices e g in modeling camera motion stick figures e g for activity recognition subspace comparisons e g in face recognition symmetric positive definite matrices e g in diffusion tensor imaging and function spaces e g in studying shapes of closed contours

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