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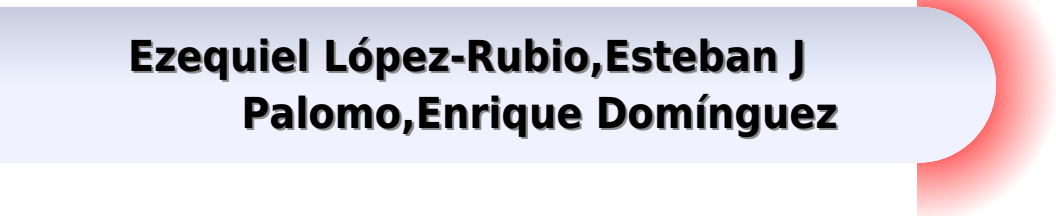
Mathematical Methods and Applications for Artificial Intelligence and Computer Vision

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

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Mathematical Methods In Computer Vision

**Ezequiel López-Rubio, Esteban J
Palomo, Enrique Domínguez**



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.

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

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

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

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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 manifold 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

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 *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

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