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Mathematical Problems in Image Processing Partial Differential Equations and the Calculus of Variations

Second Edition



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Mathematical Problems in Image Processing Gilles Aubert, Pierre Kornprobst, 2008-04-06 Partial differential equations and variational methods were introduced into image processing about 15 years ago and intensive research has been carried out since then. The main goal of this work is to present the variety of image analysis applications and the precise mathematics involved. It is intended for two audiences: The first is the mathematical community to show the contribution of mathematics to this domain and to highlight some unresolved theoretical questions. The second is the computer vision community to present a clear, self-contained and global overview of the mathematics involved in image processing problems. The book is divided into five main parts. Chapter 1 is a detailed overview. Chapter 2 describes and illustrates most of the mathematical notions found throughout the work. Chapters 3 and 4 examine how PDEs and variational methods can be successfully applied in image restoration and segmentation processes. Chapter 5, which is more applied, describes some challenging computer vision problems such as sequence analysis or classification. This book will be useful to researchers and graduate students in mathematics and computer vision.

Mathematical Problems in Image Processing Gilles Aubert, Pierre Kornprobst, 2008-11-01 The updated 2nd edition of this book presents a variety of image analysis applications, reviews their precise mathematics, and shows how to discretize them. For the mathematical community, the book shows the contribution of mathematics to this domain and highlights unsolved theoretical questions. For the computer vision community, it presents a clear, self-contained and global overview of the mathematics involved in image processing problems. The second edition offers a review of progress in image processing applications covered by the PDE framework and updates the existing material. The book also provides programming tools for creating simulations with minimal effort.

Computational Methods for Inverse Problems and Applications Amine Laghrib, Mourad Nachaoui, Lekbir Afraites, 2025-07-24 This book highlights recent trends in inverse problems and their integration with computer science, a field rapidly evolving yet underexplored mathematically. ICMDS 2024 aims to unite scientists to explore the latest in mathematics and its applications across various scientific disciplines. Key topics include inverse problems, partial differential equations, mathematical control, numerical analysis, and computer science. Our goal is to provide substantial mathematical insights and practical applications to bridge this gap. With its growing significance in media and industry, this event promises to attract a diverse audience and foster collaboration across scientific domains. The main contribution of this book is to give some sufficient mathematical content with expressive results and accurate applications. As a growing field, it is gaining a lot of attention both in media as well as in the industry world, which will attract the interest of readers from different scientific disciplines.

Scale Space and Variational Methods in Computer Vision Xue-Cheng Tai, Knut Mørken, Marius Lysaker, Knut-Andreas Lie, 2009-05-24 This book contains 71 original scientific articles that address state-of-the-art research related to scale space and variational methods for image processing and computer vision. Topics covered in the book range from mathematical analysis of both established

and new models fast numerical methods image analysis segmentation registration surface and shape construction and processing to real applications in medical imaging and computer vision The ideas of scale space and variational methods related to partial differential equations are central concepts The papers reflect the newest developments in these fields and also point to the latest literature All the papers were submitted to the Second International Conference on Scale Space and Variational Methods in Computer Vision which took place in Voss Norway during June 15 2009 The papers underwent a peer review process similar to that of high level journals in the field We thank the authors the Scientific Committee the Program Committee and the reviewers for their hard work and helpful collaboration Their contribution has been crucial for the efficient processing of this book and for the success of the conference

Computational Modeling of Objects Presented in Images: Fundamentals, Methods, and Applications Yongjie Jessica Zhang, João Manuel R.S. Tavares, 2014-07-23 This book constitutes the refereed proceedings of the 4th International Conference on Computational Modeling of Objects Presented in Images CompIMAGE 2014 held in Pittsburgh PA USA in September 2014 The 29 revised full papers presented together with 10 short papers and 6 keynote talks were carefully reviewed and selected from 54 submissions The papers cover the following topics medical treatment imaging and analysis image registration denoising and feature identification image segmentation shape analysis meshing and graphs medical image processing and simulations image recognition reconstruction and predictive modeling image based modeling and simulations and computer vision and data driven investigations

Computational Partial Differential Equations Using MATLAB Jichun Li, Yi-Tung Chen, 2008-10-20 This textbook introduces several major numerical methods for solving various partial differential equations PDEs in science and engineering including elliptic parabolic and hyperbolic equations It covers traditional techniques that include the classic finite difference method and the finite element method as well as state of the art numerical

FOUNDATIONS AND FUTURES OF MULTIDISCIPLINARY RESEARCH: CROSS-DOMAIN METHODS AND MODELS Irshadullah Asim Mohammed, Dr. A.V.N.S. Sharma, Dr. R. Vettriselvan, Prof. Vibhor Airen, Dr. Richa Saxena, Ajit Kumar Ojah, 2025-12-10

Journal of Partial Differential Equations, 2004

Information Systems Design and Intelligent Applications J. K. Mandal, Suresh Chandra Satapathy, Manas Kumar Sanyal, Partha Pratim Sarkar, Anirban Mukhopadhyay, 2015-01-20

The second international conference on Information Systems Design and Intelligent Applications INDIA 2015 held in Kalyani India during January 8-9 2015 The book covers all aspects of information system design computer science and technology general sciences and educational research Upon a double blind review process a number of high quality papers are selected and collected in the book which is composed of two different volumes and covers a variety of topics including natural language processing artificial intelligence security and privacy communications wireless and sensor networks microelectronics circuit and systems machine learning soft computing mobile computing and applications cloud computing software engineering graphics and image processing rural engineering e-commerce e-governance business

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Lisowska, 2014-03-24 Modern image processing techniques are based on multiresolution geometrical methods of image representation These methods are efficient in sparse approximation of digital images There is a wide family of functions called simply X lets and these methods can be divided into two groups the adaptive and the nonadaptive This book is devoted to the adaptive methods of image approximation especially to multismoothlets Besides multismoothlets several other new ideas are also covered Current literature considers the black and white images with smooth horizon function as the model for sparse approximation but here the class of blurred multihorizon is introduced which is then used in the approximation of images with multiedges Additionally the semi anisotropic model of multiedge representation the introduction of the shift invariant multismoothlet transform and sliding multismoothlets are also covered **Geometrical Multiresolution Adaptive Transforms** should be accessible to both mathematicians and computer scientists It is suitable as a professional reference for students researchers and engineers containing many open problems and will be an excellent starting point for those who are beginning new research in the area or who want to use geometrical multiresolution adaptive methods in image processing analysis or compression **Visual Communications and Image Processing 2004**, 2004 **Encyclopedia of**

Mathematical Physics Jean-Pierre Francoise, Gregory L. Naber, Sheung Tsun Tsou, 2006 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher s own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou

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