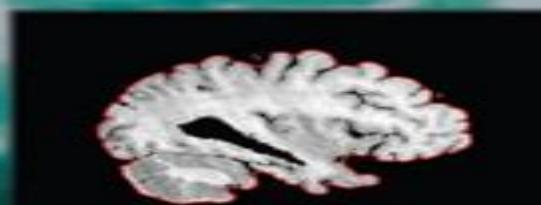


Variational Methods in Image Processing



**Luminita A. Vese
Carole Le Guyader**



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Variational Methods in Image Processing Luminita A. Vese,Carole Le Guyader,2015-11-18 Variational Methods in Image Processing presents the principles techniques and applications of variational image processing The text focuses on variational models their corresponding Euler Lagrange equations and numerical implementations for image processing It balances traditional computational models with more modern techniques that solve the latest challenges introduced by new image acquisition devices The book addresses the most important problems in image processing along with other related problems and applications Each chapter presents the problem discusses its mathematical formulation as a minimization problem analyzes its mathematical well posedness derives the associated Euler Lagrange equations describes the numerical approximations and algorithms explains several numerical results and includes a list of exercises MATLAB codes are available online Filled with tables illustrations and algorithms this self contained textbook is primarily for advanced undergraduate and graduate students in applied mathematics scientific computing medical imaging computer vision computer science and engineering It also offers a detailed overview of the relevant variational models for engineers professionals from academia and those in the image processing industry

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Soviet Science and Technology 1987 ,1988 **Decision Sciences** Raghu Nandan Sengupta,Aparna Gupta,Joydeep Dutta,2016-11-30 This handbook is an endeavour to cover many current relevant and essential topics related to decision sciences in a scientific manner Using this handbook graduate students researchers as well as practitioners from engineering statistics sociology economics etc will find a new and refreshing paradigm shift as to how these topics can be put to use

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range of contexts These include fields as diverse as biology medicine chemistry environmental physics image processing and computer vision The material chosen was presented at a multidisciplinary workshop on parameter estimation held in 2009 in Heidelberg The contributions show how indispensable efficient methods of applied mathematics and computer based modeling can be to enhancing the quality of interdisciplinary research The use of scientific computing to model simulate and optimize complex processes has become a standard methodology in many scientific fields as well as in industry Demonstrating that the use of state of the art optimization techniques in a number of research areas has much potential for improvement this book provides advanced numerical methods and the very latest results for the applications under consideration **Scientific and Technical Books and Serials in Print** ,1989 *Scientific and Technical Books in Print* ,1972 New Technical Books New York Public Library,1991

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