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Variational and Diffusion Problems in Random Walk Spaces José M. Mazón, Marcos Solera-Diana, J. Julián

Toledo-Melero, 2023-08-04 This book presents the latest developments in the theory of gradient flows in random walk spaces A broad framework is established for a wide variety of partial differential equations on nonlocal models and weighted graphs Within this framework specific gradient flows that are studied include the heat flow the total variational flow and evolution problems of Leray Lions type with different types of boundary conditions With many timely applications this book will serve as an invaluable addition to the literature in this active area of research Variational and Diffusion Problems in Random Walk Spaces will be of interest to researchers at the interface between analysis geometry and probability as well as to graduate students interested in exploring these areas

Variational Methods in Image Processing Luminita A. Vese, 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

Advances in Numerical Simulation in Physics and Engineering Carlos Parés, Carlos Vázquez, Frédéric Coquel, 2014-07-05 The book is mainly addressed to young graduate students in engineering and natural sciences who start to face numerical simulation either at a research level or in the field of industrial applications The main subjects covered are Biomechanics Stochastic Calculus Geophysical flow simulation and Shock Capturing numerical methods for Hyperbolic Systems of Partial Differential Equations The book can also be useful to researchers or even technicians working at an industrial environment who are interested in the state of the art numerical

techniques in these fields Moreover it gives an overview of the research developed at the French and Spanish universities and in some European scientific institutions This book can be also useful as a textbook at master courses in Mathematics Physics or Engineering

Nonlocal Perimeter, Curvature and Minimal Surfaces for Measurable Sets José M. Mazón, Julio Daniel Rossi, J. Julián Toledo, 2019-04-10 This book highlights the latest developments in the geometry of measurable sets presenting them in simple straightforward terms It addresses nonlocal notions of perimeter and curvature and studies in detail the minimal surfaces associated with them These notions of nonlocal perimeter and curvature are defined on the basis of a non singular kernel Further when the kernel is appropriately rescaled they converge toward the classical perimeter and curvature as the rescaling parameter tends to zero In this way the usual notions can be recovered by using the nonlocal ones In addition nonlocal heat content is studied and an asymptotic expansion is obtained Given its scope the book is intended for undergraduate and graduate students as well as senior researchers interested in analysis and or geometry

Perturbation Methods and Semilinear Elliptic Problems on R^n Antonio Ambrosetti, Andrea Malchiodi, 2005-11-18 Several important problems arising in Physics Differential Geometry and other n topics lead to consider semilinear variational elliptic equations on R and a great deal of work has been devoted to their study From the mathematical point of view the main interest relies on the fact that the tools of Nonlinear Functional Analysis based on compactness arguments in general cannot be used at least in a straightforward way and some new techniques have to be developed n On the other hand there are several elliptic problems on R which are p turbative in nature In some cases there is a natural perturbation parameter like in the bifurcation from the essential spectrum or in singularly perturbed equations or in the study of semiclassical standing waves for NLS In some other circumstances one studies perturbations either because this is the first step to obtain global results or else because it often provides a correct perspective for further global studies For these perturbation problems a specific approach that takes advantage of such a perturbative setting seems the most appropriate These abstract tools are provided by perturbation methods in critical point theory Actually it turns out that such a framework can be used to handle a large variety of equations usually considered different in nature

The aim of this monograph is to discuss these abstract methods together with their applications to several perturbation problems whose common feature is to involve semilinear Elliptic Partial Differential Equations on R with a variational structure

Singular Sets of Minimizers for the Mumford-Shah Functional Guy David, 2005-03-22 The Mumford Shah functional was introduced in the 1980s as a tool for automatic image segmentation but its study gave rise to many interesting questions of analysis and geometric measure theory The main object under scrutiny is a free boundary K where the minimizer may have jumps The book presents an extensive description of the known regularity properties of the singular sets K and the techniques to get them It is largely self contained and should be accessible to graduate students in analysis The core of the book is composed of regularity results that were proved in the last ten years and which are presented in a more detailed and

unified way **Mathematics Across Contemporary Sciences** Taher Abualrub, Abdul Salam Jarrah, Sadok Kallel, Hana Sulieman, 2017-01-22 This work presents invited contributions from the second International Conference on Mathematics and Statistics jointly organized by the AUS American University of Sharjah and the AMS American Mathematical Society Addressing several research fields across the mathematical sciences all of the papers were prepared by faculty members at universities in the Gulf region or prominent international researchers The current volume is the first of its kind in the UAE and is intended to set new standards of excellence for collaboration and scholarship in the region Annales Scientifiques de L'École Normale Supérieure École normale supérieure (France), 2016 **Nonlocal and Abstract Parabolic Equations and Their Applications** Piotr Mucha, Marek Niezgódka, Piotr Rybka, 2009 **Newsletter** New Zealand Mathematical Society, 2004 *Journal of analysis and its application* , 2005 *Nonlocal and Nonlinear Diffusions and Interactions: New Methods and Directions* José Antonio Carrillo, Manuel del Pino, Alessio Figalli, Giuseppe Mingione, Juan Luis Vázquez, 2017-10-03 Presenting a selection of topics in the area of nonlocal and nonlinear diffusions this book places a particular emphasis on new emerging subjects such as nonlocal operators in stationary and evolutionary problems and their applications swarming models and applications to biology and mathematical physics and nonlocal variational problems The authors are some of the most well known mathematicians in this innovative field which is presently undergoing rapid development The intended audience includes experts in elliptic and parabolic equations who are interested in extending their expertise to the nonlinear setting as well as Ph D or postdoctoral students who want to enter into the most promising research topics in the field **American Book Publishing Record** , 2004 **Mathematical Reviews** , 2005 Computational Imaging , 2006 *Revista Matemática Iberoamericana* , 2011 Advances in Image and Video Segmentation Yu-Jin Zhang, 2006 This book attempts to bring together a selection of the latest results of state of the art research in image and video segmentation one of the most critical tasks of image and video analysis that has the objective of extracting information represented by data from an image or a sequence of images video Provided by publisher **Advances in Mathematical Sciences and Applications** , 2007 **Diffusionsmodelle zur geomorphologischen Generalisierung und ihre Finite-Elemente- Diskretisierung** Jens Vogelgesang, 2007

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