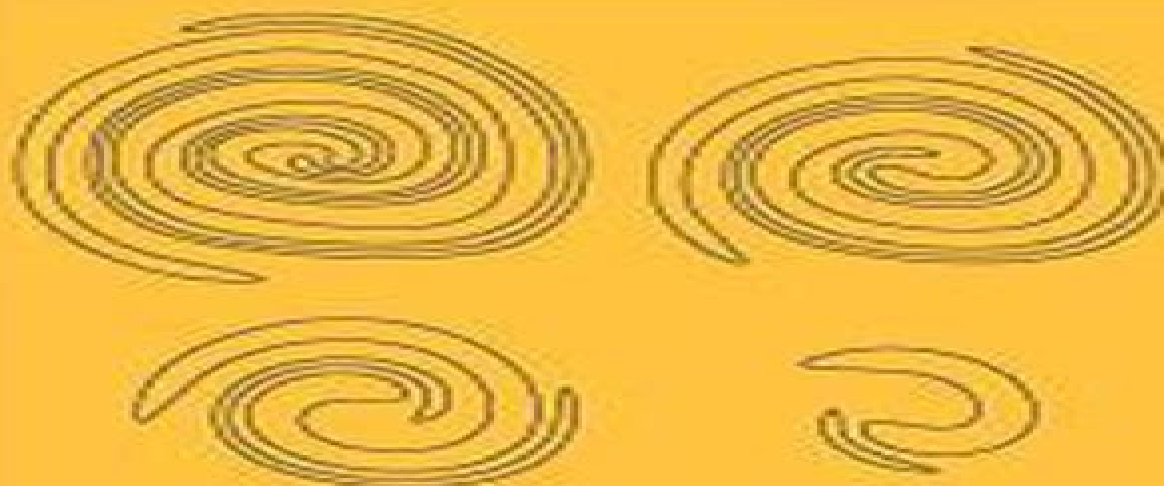


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Based on Partial Differential Equations Xue-Cheng Tai, Knut-Andreas Lie, Tony F. Chan, Stanley Osher, 2006-11-22 This book publishes a collection of original scientific research articles that address the state of art in using partial differential equations for image and signal processing Coverage includes level set methods for image segmentation and construction denoising techniques digital image inpainting image dejittering image registration and fast numerical algorithms for solving these problems **Geometric Analysis and PDEs** Matthew J. Gursky, Ermanno Lanconelli, Andrea Malchiodi, Gabriella

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Florack, 2005-11-04 This book constitutes the thoroughly refereed post proceedings of the First International Workshop on Deep Structure Singularities and Computer Vision DSSCV 2005 held in Maastricht The Netherlands in June 2005 The 14 revised full papers and 8 revised poster papers presented were carefully reviewed and selected for inclusion in the book They represent the current state of the art in understanding the relation between structural topological information represented by singularities and metric information of signals shapes images and colors **Scale Space and Variational Methods in**

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Applied Mathematics Entering the 21st Century James M. Hill, Ross Moore, 2004-04-01 Included in this volume are the Invited Talks given at the 5th International Congress of Industrial and Applied Mathematics The authors of these papers are all acknowledged masters of their fields having been chosen through a rigorous selection process by a distinguished International Program Committee This volume presents an overview of contemporary applications of mathematics with the coverage ranging from the rhythms of the nervous system to optimal transportation elasto plasticity computational drug design hydrodynamic and meteorological modeling and valuation in financial markets Many papers are direct products of the computer revolution grid generation multi scale modeling high dimensional numerical integration nonlinear optimization accurate floating point computations and advanced iterative methods Other papers demonstrate the close dependence on developments in mathematics itself and the increasing importance of statistics Additional topics relate to the study of properties of fluids and fluid flows or add to our understanding of Partial Differential Equations **A Theory of Shape**

Identification Frédéric Cao, José-Luis Lisani, J.-M. Morel, Pablo Musé, Frédéric Sur, 2008-08-28 Recent years have seen dramatic progress in shape recognition algorithms applied to ever growing image databases They have been applied to image stitching stereo vision image mosaics solid object recognition and video or web image retrieval More fundamentally the ability of humans and animals to detect and recognize shapes is one of the enigmas of perception The book describes a complete method that starts from a query image and an image database and yields a list of the images in the database containing shapes present in the query image A false alarm number is associated to each detection Many experiments will show that familiar simple shapes or images can reliably be identified with false alarm numbers ranging from 10⁻⁵ to less than 10⁻³⁰⁰ Technically speaking there are two main issues The first is extracting invariant shape descriptors from digital images Indeed a shape can be seen from various angles and distances and in various lights *Methods of Contemporary*

Mathematical Statistical Physics Marek Biskup, Anton Bovier, Frank den Hollander, Dima Ioffe, Fabio Martinelli, Karel Netocný, Christina Toninelli, 2009-07-31 This volume presents a collection of courses introducing the reader to the recent progress with attention being paid to laying solid grounds and developing various basic tools It presents new results on phase transitions for gradient lattice models **Space, Structure and Randomness** Michel Bilodeau, Fernand Meyer, Michel Schmitt, 2007-12-23 Space structure and randomness these are the three key concepts underlying Georges Matheron's scientific work He first encountered them at the beginning of his career when working as a mining engineer and then they resurfaced in fields ranging from meteorology to microscopy What could these radically different types of applications possibly have in common First in each one only a single realisation of the phenomenon is available for study but its features repeat themselves in space second the sampling pattern is rarely regular and finally there are problems of change of scale This volume is divided in three sections on random sets geostatistics and mathematical morphology They reflect his professional interests and his search for underlying unity Some readers may be surprised to find theoretical

chapters mixed with applied ones We have done this deliberately GM always considered that the distinction between the theory and practice was purely academic When GM tackled practical problems he used his skill as a physicist to extract the salient features and to select variables which could be measured meaningfully and whose values could be estimated from the available data Then he used his outstanding ability as a mathematician to solve the problems neatly and efficiently It was his capacity to combine a physicist's intuition with a mathematician's analytical skills that allowed him to produce new and innovative solutions to difficult problems The book should appeal to graduate students and researchers working in mathematics probability statistics physics spatial data analysis and image analysis In addition it will be of interest to those who enjoy discovering links between scientific disciplines that seem unrelated at first glance In writing the book the contributors have tried to put GM's ideas into perspective During his working life GM was a genuinely creative scientist He developed innovative concepts whose usefulness goes far beyond the confines of the discipline for which they were originally designed This is why his work remains as pertinent today as it was when it was first written

Introduction to Complex Reflection Groups and Their Braid Groups Michel Broué, 2010-01-28 This book covers basic properties of complex reflection groups such as characterization Steinberg theorem Gutkin Opdam matrices Solomon theorem and applications including the basic findings of Springer theory on eigenspaces

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Nonlinear Analysis, Geometry and Applications Diaraf Seck, Kinvi Kangni, Marie Salomon Sambou, Philibert Nang, Mouhamed Moustapha Fall, 2024-05-22 The NLAGA's Biennial International Research Symposium NLAGA BIRS is intended to gather African expertises in Nonlinear Analysis Geometry and their Applications with their international partners in a four days conference where new mathematical results are presented and discussed This book features the best papers presented during this Biennial The different topics addressed are related to Partial Differential Equations Differential inclusions Geometrical Analysis of Optimal Shapes Complex Analysis Geometric Structures Algebraic Geometry Algebraic Optimization Optimal Control and Mathematical modeling The main focus of the NLAGA project is to deepen and consolidate the development in West and Center Africa of Nonlinear Analysis Geometry and their Applications aimed at solving in particular real world problems such as coastal erosion urban network pollution problems and population dynamics

Lectures on Topological Fluid Mechanics Mitchell A. Berger, Renzo L. Ricca, Louis H. Kauffman, Boris Khesin, H. Keith Moffatt, De Witt Sumners, 2009-05-28 Helmholtz's seminal paper on vortex motion 1858 marks the beginning of what is now called topological fluid mechanics After 150 years of work the field has grown considerably In the last several decades

unexpected developments have given topological fluid mechanics new impetus benefiting from the impressive progress in knot theory and geometric topology on the one hand and in mathematical and computational fluid dynamics on the other This volume contains a wide ranging collection of up to date valuable research papers written by some of the most eminent experts in the field Topics range from fundamental aspects of mathematical fluid mechanics including topological vortex dynamics and magnetohydrodynamics integrability issues Hamiltonian structures and singularity formation to DNA tangles and knotted DNAs in sedimentation A substantial introductory chapter on knots and links covering elements of modern braid theory and knot polynomials as well as more advanced topics in knot classification provides an invaluable addition to this material

Vector fields on Singular Varieties Jean-Paul Brasselet, José Seade, Tatsuo Suwa, 2009-11-28 Many authors have questioned the use of the index of the vector field and of the Chern classes if the underlying space becomes singular This book discusses their explorations within the framework of the obstruction theory and the Chern Weil theory

Geometric Description of Images as Topographic Maps Vicent Caselles, Pascal Monasse, 2009-12-24 This book discusses the basic geometric contents of an image and presents a tree data structure to handle efficiently It analyzes also some morphological operators that simplify this geometric contents and their implementation in terms of the data structures introduced It finally reviews several applications to image comparison and registration to edge and corner computation and the selection of features associated to a given scale in images Let us first say that to avoid a long list we shall not give references in this summary they are obviously contained in this monograph A gray level image is usually modeled as a function defined in a bounded N domain $D \subset \mathbb{R}^N$ typically $N=2$ for usual snapshots $N=3$ for medical images or movies with values in \mathbb{R} The sensors of a camera or a CCD array transform the continuum of light energies to a finite interval of values by means of a nonlinear function g The contrast change g depends on the properties of the sensors but also on the illumination conditions and the reflection properties of the objects and those conditions are generally unknown Images are thus observed modulo an arbitrary and unknown contrast change

Surface Evolution Equations Yoshikazu Giga, 2006-03-30 This book presents a self contained introduction to the analytic foundation of a level set approach for various surface evolution equations including curvature flow equations These equations are important in many applications such as material sciences image processing and differential geometry The goal is to introduce a generalized notion of solutions allowing singularities and to solve the initial value problem globally in time in a generalized sense Various equivalent definitions of solutions are studied Several new results on equivalence are also presented Moreover structures of level set equations are studied in detail Further a rather complete introduction to the theory of viscosity solutions is contained which is a key tool for the level set approach Although most of the results in this book are more or less known they are scattered in several references sometimes without proofs This book presents these results in a synthetic way with full proofs The intended audience are graduate students and researchers in various disciplines who would like to know the applicability and detail of the theory as well as its flavour No familiarity with differential

geometry or the theory of viscosity solutions is required Only prerequisites are calculus linear algebra and some basic knowledge about semicontinuous functions *Scale Space and Variational Methods in Computer Vision* Xue-Cheng Tai,Knut Morken,Marius Lysaker,Knut-Andreas Lie,2009-05-25 This book constitutes the refereed proceedings of the Second International Conference on Scale Space Methods and Variational Methods in Computer Vision SSVM 2009 emanated from the joint edition of the 5th International Workshop on Variational Geometric and Level Set Methods in Computer Vision VLSM 2009 and the 7th International Conference on Scale Space and PDE Methods in Computer Vision Scale Space 2009 held in Voss Norway in June 2009 The 71 revised full papers presented were carefully reviewed and selected numerous submissions The papers are organized in topical sections on segmentation and detection image enhancement and reconstruction motion analysis optical flow registration and tracking surfaces and shapes scale space and feature extraction

Shapes and Diffeomorphisms Laurent Younes,2019-05-17 This book covers mathematical foundations and methods for the computerized analysis of shapes providing the requisite background in geometry and functional analysis and introducing various algorithms and approaches to shape modeling with a special focus on the interesting connections between shapes and their transformations by diffeomorphisms A direct application is to computational anatomy for which techniques such as large deformation diffeomorphic metric mapping and metamorphosis among others are presented The appendices detail a series of classical topics Hilbert spaces differential equations Riemannian manifolds optimal control The intended audience is applied mathematicians and mathematically inclined engineers interested in the topic of shape analysis and its possible applications in computer vision or medical imaging The first part can be used for an advanced undergraduate course on differential geometry with a focus on applications while the later chapters are suitable for a graduate course on shape analysis through the action of diffeomorphisms Several significant additions appear in the 2nd edition most notably a new chapter on shape datasets and a discussion of optimal control theory in an infinite dimensional framework which is then used to enrich the presentation of diffeomorphic matching **Lower Central and Dimension Series of Groups** Roman

Mikhailov,Inder Bir Singh Passi,2009 A fundamental object of study in group theory is the lower central series of groups Understanding its relationship with the dimension series is a challenging task This monograph presents an exposition of different methods for investigating this relationship

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