

COMPUTATIONAL IMAGING AND VISION

Mathematical Morphology and its Applications to Image and Signal Processing

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Mathematical Morphology And Its Applications To Image And Signal Processing Computational Imaging And Vision

Chao Zhang



Mathematical Morphology And Its Applications To Image And Signal Processing Computational Imaging And Vision:

Mathematical Morphology and Its Applications to Image and Signal Processing Petros Maragos, Ronald W. Schafer, Muhammad Akmal Butt, 1996-05-31 Mathematical morphology MM is a powerful methodology for the quantitative analysis of geometrical structures It consists of a broad and coherent collection of theoretical concepts nonlinear signal operators and algorithms aiming at extracting from images or other geometrical objects information related to their shape and size Its mathematical origins stem from set theory lattice algebra and integral and stochastic geometry MM was initiated in the late 1960s by G Matheron and J Serra at the Fontainebleau School of Mines in France Originally it was applied to analyzing images from geological or biological specimens However its rich theoretical framework algorithmic efficiency easy implementability on special hardware and suitability for many shape oriented problems have propelled its widespread diffusion and adoption by many academic and industry groups in many countries as one among the dominant image analysis methodologies The purpose of Mathematical Morphology and its Applications to Image and Signal Processing is to provide the image analysis community with a sampling from the current developments in the theoretical deterministic and stochastic and computational aspects of MM and its applications to image and signal processing The book consists of the papers presented at the ISMM 96 grouped into the following themes Theory Connectivity Filtering Nonlinear System Related to Morphology Algorithms Architectures Granulometries Texture Segmentation Image Sequence Analysis Learning Document Analysis Applications

Mathematical Morphology and Its Applications to Image Processing Jean Serra, Pierre Soille, 2012-12-06 Mathematical morphology MM is a theory for the analysis of spatial structures It is called morphology since it aims at analysing the shape and form of objects and it is mathematical in the sense that the analysis is based on set theory topology lattice algebra random functions etc MM is not only a theory but also a powerful image analysis technique The purpose of the present book is to provide the image analysis community with a snapshot of current theoretical and applied developments of MM The book consists of forty five contributions classified by subject It demonstrates a wide range of topics suited to the morphological approach

Morphological Image Analysis Pierre Soille, 2013-03-14 Following the success of the first edition recent developments in the field of morphological image analysis called for an extended second edition The text has been fully revised with the goal of improving its clarity while introducing new concepts of interest to real image analysis applications One chapter devoted to texture analysis has been added Main extensions include discussion about multichannel images and their morphological processing ordering relations on image partitions connected operators and levellings homotopy for greytone images translation invariant implementations of erosions and dilations by line segments reinforced emphasis on rank based morphological operators grey tone hit or miss ordered independent homotopic thinnings and anchored skeletons self dual geodesic transformation and reconstruction area based self dual filters anti centre

watershed based texture segmentation texture models and new scientific and industrial applications

Visualization and Processing of Higher Order Descriptors for Multi-Valued Data Ingrid Hotz, Thomas Schultz, 2015-07-03 Modern imaging techniques and computational simulations yield complex multi valued data that require higher order mathematical descriptors This book addresses topics of importance when dealing with such data including frameworks for image processing visualization and statistical analysis of higher order descriptors It also provides examples of the successful use of higher order descriptors in specific applications and a glimpse of the next generation of diffusion MRI To do so it combines contributions on new developments current challenges in this area and state of the art surveys Compared to the increasing importance of higher order descriptors in a range of applications tools for analysis and processing are still relatively hard to come by Even though application areas such as medical imaging fluid dynamics and structural mechanics are very different in nature they face many shared challenges This book provides an interdisciplinary perspective on this topic with contributions from key researchers in disciplines ranging from visualization and image processing to applications It is based on the 5th Dagstuhl seminar on Visualization and Processing of Higher Order Descriptors for Multi Valued Data This book will appeal to scientists who are working to develop new analysis methods in the areas of image processing and visualization as well as those who work with applications that generate higher order data or could benefit from higher order models and are searching for novel analytical tools

Ten Lectures on Statistical and Structural Pattern Recognition M.I. Schlesinger, Václav Hlaváč, 2013-03-09 Preface to the English edition This monograph *Ten Lectures on Statistical and Structural Pattern Recognition* uncovers the close relationship between various well known pattern recognition problems that have so far been considered independent These relationships became apparent when formal procedures addressing not only known problems but also their generalisations were discovered The generalised problem formulations were analysed mathematically and unified algorithms were found The book unifies of two main streams in pattern recognition the statistical and structural ones In addition to this bridging on the uppermost level the book mentions several other unexpected relations within statistical and structural methods The monograph is intended for experts for students as well as for those who want to enter the field of pattern recognition The theory is built up from scratch with almost no assumptions about any prior knowledge of the reader Even when rigorous mathematical language is used we make an effort to keep the text easy to comprehend This approach makes the book suitable for students at the beginning of their scientific career Basic building blocks are explained in a style of an accessible intellectual exercise thus promoting good practice in reading mathematical text The paradoxes beauty and pitfalls of scientific research are shown on examples from pattern recognition Each lecture is amended by a discussion with an inquisitive student that elucidates and deepens the explanation providing additional pointers to computational procedures and deep rooted errors

Human Motion Bodo Rosenhahn, Reinhard Klette, Dimitris Metaxas, 2008 This is the first book which informs about recent progress in biomechanics computer vision and computer

graphics all in one volume Researchers from these areas have contributed to this book to promote the establishment of human motion research as a multi faceted discipline and to improve the exchange of ideas and concepts between these three areas The book combines carefully written reviews with detailed reports on recent progress in research

Landmark-Based Image Analysis Karl Rohr,2013-03-14 Landmarks are preferred image features for a variety of computer vision tasks such as image mensuration registration camera calibration motion analysis 3D scene reconstruction and object recognition Main advantages of using landmarks are robustness w r t lightning conditions and other radiometric vari ations as well as the ability to cope with large displacements in registration or motion analysis tasks Also landmark based approaches are in general com putationally efficient particularly when using point landmarks Note that the term landmark comprises both artificial and natural landmarks Examples are comers or other characteristic points in video images ground control points in aerial images anatomical landmarks in medical images prominent facial points used for biometric verification markers at human joints used for motion capture in virtual reality applications or in and outdoor landmarks used for autonomous navigation of robots This book covers the extraction oflandmarks from images as well as the use of these features for elastic image registration Our emphasis is onmodel based approaches i e on the use of explicitly represented knowledge in image analy sis We principally distinguish between geometric models describing the shape of objects typically their contours and intensity models which directly repre sent the image intensities i e the appearance of objects Based on these classes of models we develop algorithms and methods for analyzing multimodality im ages such as traditional 20 video images or 3D medical tomographic images

The Theory of the Moiré Phenomenon Isaac Amidror,2007-03-16 Since The Theory of the Moir Phenomenon was published it became the main reference book in its field It provided for the first time a complete unified and coherent theoretical approach for the explanation of the moir phenomenon starting from the basics of the theory but also going in depth into more advanced research results However it is clear that a single book cannot cover the full breadth of such a vast subject and indeed this original volume admittently concentrated on only some aspects of the moir theory while other interesting topics had to be left out Perhaps the most important area that remained beyond the scope of the original book consists of the moir effects that occur between correlated random or aperiodic structures These moir effects are known as Glass patterns after Leon Glass who described them in the late 1960s However this branch of the moir theory remained for many years less widely known and less understood than its periodic or repetitive counterpart Less widely known because moir effects between aperiodic or random structures are less frequently encountered in everyday s life and less understood because these effects did not easily lend themselves to the same mathematical methods that so nicely explained the classical moir effects between periodic or repetitive structures

Journal of VLSI Signal Processing Systems for Signal, Image, and Video Technology ,1998 *IEEE Circuits & Devices* ,2001 **Intelligent Robots and Computer Vision** ,2000 *Proceedings, International Conference on Image Processing* IEEE Signal Processing Society,1996

Computer Vision - ECCV ... ,2002 Medical Imaging 2004 ,2004 **Medical Imaging** ,2004 **Fundamenta Informaticae** Polskie Towarzystwo Matematyczne,2000 *Books in Print* ,1991 Visual Communications and Image Processing '93 ,1993 **American Book Publishing Record Cumulative 1998** R R Bowker Publishing,1999-03
Microarrays Society of Photo-optical Instrumentation Engineers,2001

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