

Mathematical Morphology: Binary Images

- Dilation (dilatace)

- notation: $X \oplus B$
- definition: $X \oplus B = \{d \in E^2: d=x+b \text{ for every } x \in X \text{ and } b \in B\}$
(alternative def.: $X \oplus B = \{d \in E^2: d=x-b \text{ for every } x \in X \text{ and } b \in B\}$)
- meaning: Dilation replaces zeros neighboring to ones by ones.
- example:

$$X = \{(0,1),(1,1),(2,1),(2,2),(3,0),(4,0)\}$$

$$B = \{(0,0), (0,1)\}$$

$$X \oplus B = \{(0,1), (1,1), (2,1), (2,2), (3,0), (4,0), \\ (0,2), (1,2), (2,2), (2,3), (3,1), (4,1)\}$$



Mathematical Morphology

John Goutsias, Henk J. A. M. Heijmans



Mathematical Morphology:

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.

Hands-on Morphological Image Processing Edward R. Dougherty, Roberto A. Lotufo, 2003 Morphological image processing, a standard part of the imaging scientist's toolbox, can be applied to a wide range of industrial applications. Concentrating on applications, this text shows how to analyse the problems and then develop successful algorithms to solve them.

Mathematical Morphology in Image Processing Edward Dougherty, 2018-10-03 Presents the statistical analysis of morphological filters and their automatic optical design, the development of morphological features for image signatures and the design of efficient morphological algorithms. Extends the morphological paradigm to include other branches of science and mathematics. This book is designed to be of interest to optical, electrical and electronics and electro-optic engineers including image processing, signal processing, machine vision and computer vision engineers, applied mathematicians, image analysts and scientists and graduate level students in image processing and mathematical morphology courses.

Mathematical Morphology Laurent Najman, Hugues Talbot, 2013-01-24 Mathematical Morphology allows for the analysis and processing of geometrical structures using techniques based on the fields of set theory, lattice theory, topology and random functions. It is the basis of morphological image processing and finds applications in fields including digital image processing, DSP as well as areas for graphs, surface meshes, solids and other spatial structures. This book presents an up-to-date treatment of mathematical morphology based on the three pillars that made it an important field of theoretical work and practical application: a solid theoretical foundation, a large body of applications and an efficient implementation. The book is divided into five parts and includes 20 chapters. The five parts are structured as follows: Part I sets out the fundamental aspects of the discipline, starting with a general introduction followed by two more theory-focused chapters, one addressing its mathematical structure and including an updated formalism which is the result of several decades of work. Part II extends this formalism to some non-deterministic aspects of the theory, in particular detailing links with other disciplines such as stereology, geostatistics and fuzzy logic. Part III addresses the theory of morphological filtering and segmentation, featuring modern connected approaches from both theoretical and practical aspects. Part IV features practical aspects of mathematical morphology, in particular how to deal with color and multivariate data, links to discrete geometry and topology and some algorithmic aspects without which applications would be impossible. Part V showcases all

the previously noted fields of work through a sample of interesting representative and varied applications Image Processing and Mathematical Morphology Frank Y. Shih, 2017-07-12 In the development of digital multimedia the importance and impact of image processing and mathematical morphology are well documented in areas ranging from automated vision detection and inspection to object recognition image analysis and pattern recognition Those working in these ever evolving fields require a solid grasp of basic fundamentals theory and related applications and few books can provide the unique tools for learning contained in this text *Image Processing and Mathematical Morphology Fundamentals and Applications* is a comprehensive wide ranging overview of morphological mechanisms and techniques and their relation to image processing More than merely a tutorial on vital technical information the book places this knowledge into a theoretical framework This helps readers analyze key principles and architectures and then use the author's novel ideas on implementation of advanced algorithms to formulate a practical and detailed plan to develop and foster their own ideas The book Presents the history and state of the art techniques related to image morphological processing with numerous practical examples Gives readers a clear tutorial on complex technology and other tools that rely on their intuition for a clear understanding of the subject Includes an updated bibliography and useful graphs and illustrations Examines several new algorithms in great detail so that readers can adapt them to derive their own solution approaches This invaluable reference helps readers assess and simplify problems and their essential requirements and complexities giving them all the necessary data and methodology to master current theoretical developments and applications as well as create new ones *Image Analysis and Mathematical Morphology* Jean Paul Serra, 1982 *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** John Goutsias, Henk J. A. M. Heijmans, 2000 This book contains contributions that on the one hand represent modern developments in the area of mathematical morphology and on the other hand may be of particular interest to an audience of theoretical computer scientists The introductory chapter summarizes some basic notions and concepts of mathematical morphology In this chapter a novice reader learns among other things that complete lattice theory is generally accepted as the appropriate algebraic framework for mathematical morphology In the following chapter it is explained that for a number of cases the complete lattice framework is too limited and that one should instead work on complete inf semilattices Other chapters discuss granulometries analytical aspects of mathematical morphology and the geometric character of mathematical morphology Also connectivity the watershed transform and a formal language for morphological transformations are being discussed This book has many interesting things to offer to researches in computer science mathematics physics electrical engineering and other disciplines **Mathematical**

Morphology and Its Applications to Signal and Image Processing Jón Atli Benediktsson, Jocelyn Chanussot, Laurent Najman, Hugues Talbot, 2015-05-15 This book contains the thoroughly refereed proceedings of the 12th International Symposium on Mathematical Morphology ISMM 2015 held in Reykjavik Iceland in May 2015 The 62 revised full papers were carefully reviewed and selected from 72 submissions The papers are organized in topical sections on evaluations and applications hierarchies color multivalued and orientation fields optimization differential calculus and probabilities topology and discrete geometry and algorithms and implementation Mathematical Morphology: 40 Years On Christian

Ronse, Laurent Najman, Etienne Decencière, 2005-07-28 Mathematical Morphology is a speciality in Image Processing and Analysis which considers images as geometrical objects to be analyzed through their interactions with other geometrical objects It relies on several branches of mathematics such as discrete geometry topology lattice theory partial differential equations integral geometry and geometrical probability It has produced fast and efficient algorithms for computer analysis of images and has found applications in bio medical imaging materials science geoscience remote sensing quality control document processing and data analysis This book contains the 43 papers presented at the 7th International Symposium on Mathematical Morphology held in Paris on April 18 20 2005 It gives a lively state of the art of current research topics in this field It also marks a milestone the 40 years of uninterrupted development of this ever expanding domain *Mathematical*

Morphology and Its Applications to Signal and Image Processing Jesús Angulo, Santiago Velasco-Forero, Fernand Meyer, 2017-04-07 This book contains the refereed proceedings of the 13th International Symposium on Mathematical Morphology ISMM 2017 held in Fontainebleau France in May 2017 The 36 revised full papers presented together with 4 short papers were carefully reviewed and selected from 53 submissions The papers are organized in topical sections on algebraic theory max plus and max min mathematics discrete geometry and discrete topology watershed and graph based segmentation trees and hierarchies topological and graph based clustering classification and filtering connected operators

and attribute filters PDE based morphology scale space representations and nonlinear decompositions computational morphology object detection and biomedical material science and physical applications *Mathematical Morphology and Its Application to Signal and Image Processing* Michael H. F. Wilkinson, Jos B.T.M. Roerdink, 2009-08-06 This book constitutes the refereed proceedings of the 9th International Symposium on Mathematical Morphology ISMM 2009 held in Groningen The Netherlands in August 2009 The 27 revised full papers presented together with one invited paper were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on theory connectivity and connected filters adaptive morphology graphs and topology segmentation shape morphology of multi valued images and algorithms *Mathematical Morphology* Hugues Talbot, Richard Beare, 2002 Provides a broad sampling of the most recent theoretical and practical developments in applications to image processing and analysis *Mathematical Morphology and Its Applications to Image Processing* Jean Serra, Pierre Soille, 2012-07-14 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

Mathematical Morphology and Its Applications to Signal and Image Processing Bernhard Burgeth, Andreas Kleefeld, Benoît Naegel, Nicolas Passat, Benjamin Perret, 2019-06-19 This book contains the refereed proceedings of the 14th International Symposium on Mathematical Morphology ISMM 2019 held in Saarbrücken Germany in July 2019 The 40 revised full papers presented together with one invited talk were carefully reviewed and selected from 54 submissions The papers are organized in topical sections on Theory Discrete Topology and Tomography Trees and Hierarchies Multivariate Morphology Computational Morphology Machine Learning Segmentation Applications in Engineering and Applications in Bio medical Imaging *Mathematical Morphology in Image Processing* Edward Dougherty, 2017 Presents the statistical analysis of morphological filters and their automatic optical design the development of morphological features for image signatures and the design of efficient morphological algorithms Extends the morphological paradigm to include other branches of science and mathematics This book is designed to be of interest to optical electrical and electronics and electro optic engineers including image processing signal processing machine vision and computer vision engineers applied mathematicians image analysts and scientists and graduate level students in image processing and mathematical morphology courses Provided by publisher **Mathematical Morphology and Its Applications to Image and Signal Processing** Pierre Soille, Martino Pesaresi, Georgios Ouzounis, 2011-06-29 This book contains the refereed proceedings of the 10th International Symposium on Mathematical Morphology ISMM 2011 held in Verbania Intra Italy in July 2011 It is a collection

of 39 revised full papers from which 27 were selected for oral and 12 for poster presentation from a total of 49 submissions. Moreover, the book features two invited contributions in the fields of remote sensing image analysis and scientific visualization. The papers are organized in thematic sections on theory, lattices and order connectivity, image analysis, processing and segmentation, adaptive morphology, algorithms, remote sensing, visualization and applications.

Image Analysis and Mathematical Morphology Jean Serra, 1982

Mathematical Morphology and Its Applications to Signal and Image Processing Cris L. Luengo Hendriks, Gunilla Borgefors, Robin Strand, 2013-05-13

This book contains the refereed proceedings of the 11th International Symposium on Mathematical Morphology ISMM 2013 held in Uppsala, Sweden, in May 2013. The 41 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 52 submissions. The papers are organized in topical sections on theory, trees and hierarchies, adaptive morphology, colour, manifolds and metrics, filtering, detectors and descriptors, and applications.

Elements Of Digital Geometry, Mathematical Morphology, And Discrete Optimization Christer Oscar Kiselman, 2022-01-06

The author presents three distinct but related branches of science in this book: digital geometry, mathematical morphology, and discrete optimization. They are united by a common mindset as well as by the many applications where they are useful. In addition to being useful, each of these relatively new branches of science is also intellectually challenging. The book contains a systematic study of inverses of mappings between ordered sets and so offers a uniquely helpful organization in the approach to several phenomena related to duality. To prepare the ground for discrete convexity, there are chapters on convexity in real vector spaces in anticipation of the many challenging problems coming up in digital geometry. To prepare for the study of new topologies introduced to serve in discrete spaces, there is also a chapter on classical topology. The book is intended for general readers with a modest background in mathematics and for advanced undergraduate students as well as beginning graduate students.

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