

## PART-III : MATHEMATICS

### SECTION – 1 (Maximum marks : 24)

- This section contains **EIGHT (08)** questions.
- The answer to each question is a **NUMERICAL VALUE**.
- For each question, enter the correct numerical value of the answer using the mouse and the on-screen virtual numeric keypad in the place designated to enter the answer. If the numerical value has more than two decimal places, **truncate/round-off** the value to **TWO** decimal places.
- Answer to each question will be evaluated according to the following marking scheme:

**Full Marks** : +3 **ONLY** if the correct numerical value is entered;

**Zero Marks** : 0 In all other cases.

1. Considering only the principal values of the inverse trigonometric functions, the value of

$$\frac{3}{2} \cos^{-1} \sqrt{\frac{2}{2+\pi^2}} + \frac{1}{4} \sin^{-1} \frac{2\sqrt{2}\pi}{2+\pi^2} + \tan^{-1} \frac{\sqrt{2}}{\pi}$$

is \_\_\_\_\_.

Answer (= 2.36)

**Sol.** 
$$\begin{aligned} & \frac{3}{2} \tan^{-1} \frac{\pi}{\sqrt{2}} + \frac{1}{4} \tan^{-1} \left( \frac{2\sqrt{2}\pi}{\pi^2 - 2} \right) + \tan^{-1} \frac{\sqrt{2}}{\pi} \\ &= \frac{\pi}{2} + \frac{1}{2} \tan^{-1} \frac{\pi}{\sqrt{2}} - \frac{1}{4} \tan^{-1} \left( \frac{2\sqrt{2}\pi}{2 - \pi^2} \right) \\ &= \frac{\pi}{2} + \frac{1}{2} \tan^{-1} \left( \frac{\pi}{\sqrt{2}} \right) - \frac{1}{4} \tan^{-1} \left( \frac{2 \cdot \left( \frac{\pi}{\sqrt{2}} \right)}{1 - \left( \frac{\pi}{\sqrt{2}} \right)^2} \right) \\ &= \frac{\pi}{2} + \frac{1}{2} \tan^{-1} \left( \frac{\pi}{\sqrt{2}} \right) - \frac{1}{4} \left( -\pi + 2 \tan^{-1} \left( \frac{\pi}{\sqrt{2}} \right) \right) \\ &= \frac{\pi}{2} + \frac{\pi}{4} = \frac{3\pi}{4} \\ &= 2.36 \end{aligned}$$

# Pixel Mathematics Paper 1

**Henk J.A.M. Heijmans, Jos Roerdink**



## **Pixel Mathematics Paper 1:**

*Mathematical Morphology and Its Applications to Image and Signal Processing* Petros Maragos, Ronald W. Schafer, Muhammad Akmal Butt, 2012-12-06 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 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 and Its Applications to Image and Signal Processing** Pierre Soille, Martino Pesaresi, Georgios Ouzounis, 2011-06-24 This book contains the refereed proceedings of the 10th International Symposium on Mathematical Morphology ISMM 2011 held in Viterbo, 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.

**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 Methods for Signal and Image Analysis and Representation Luc Florack, Remco Duits, Geurt Jongbloed, Marie-Collette van Lieshout, Laurie Davies, 2012-01-12

Mathematical Methods for Signal and Image Analysis and Representation presents the mathematical methodology for generic image analysis tasks In the context of this book an image may be any  $m$  dimensional empirical signal living on an  $n$  dimensional smooth manifold typically but not necessarily a subset of spacetime The existing literature on image methodology is rather scattered and often limited to either a deterministic or a statistical point of view In contrast this book brings together these seemingly different points of view in order to stress their conceptual relations and formal analogies Furthermore it does not focus on specific applications although some are detailed for the sake of illustration but on the methodological frameworks on which such applications are built making it an ideal companion for those seeking a rigorous methodological basis for specific algorithms as well as for those interested in the fundamental methodology per se Covering many topics at the forefront of current research including anisotropic diffusion filtering of tensor fields this book will be of particular interest to graduate and postgraduate students and researchers in the fields of computer vision medical imaging and visual perception

**Discrete Geometry and Mathematical Morphology** Joakim Lindblad, Filip Malmberg, Nataša Sladoje, 2021-05-15 This book constitutes the proceedings of the First IAPR International Conference on Discrete Geometry and Mathematical Morphology DGMM 2021 which was held during May 24-27 2021 in Uppsala Sweden The conference was created by joining the International Conference on Discrete Geometry for computer Imagery DGCI with the International Symposium on Mathematical Morphology ISMM The 36 papers included in this volume were carefully reviewed and selected from 59 submissions They were organized in topical sections as follows applications in image processing computer vision and pattern recognition discrete and combinatorial topology discrete geometry models transforms visualization discrete tomography and inverse problems hierarchical and graph based models analysis and segmentation learning based approaches to mathematical morphology multivariate and PDE based mathematical morphology morphological filtering The book also contains 3 invited keynote papers

**Advanced Mathematical And Computational Tools In Metrology And Testing Ix** Franco Pavese, Markus Baer, Jean-remy Filtz, Alistair B Forbes, Leslie Pendrill, Katsuhiko Shirono, 2012-03-27 This volume contains original refereed worldwide contributions They were prompted by presentations made at the ninth AMCTM Conference held in Gteborg Sweden in June 2011 on the theme of advanced mathematical and computational tools in metrology and also in the title of this book series in testing The themes in this volume reflect the importance of the mathematical statistical and numerical tools and techniques in metrology and testing and also in keeping the challenge

promoted by the Metre Convention to access a mutual recognition for the measurement standards a **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, 2005-04-01 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 **Computer Vision and Mathematical Methods in Medical and Biomedical Image Analysis** Milan Sonka, Ioannis A. Kakadiaris, Jan Kybic, 2004-09-20 Medical imaging and medical image analysis are rapidly developing While medical imaging has already become a standard of modern medical care medical image analysis is still mostly performed visually and qualitatively The ever increasing volume of acquired data makes it impossible to utilize them in full Equally important the visual approaches to medical image analysis are known to suffer from a lack of reproducibility A significant research effort is devoted to developing algorithms for processing the wealth of data available and extracting the relevant information in a computerized and quantitative fashion Medical imaging and image analysis are interdisciplinary areas combining electrical computer and biomedical engineering computer science mathematics physics statistics biology medicine and other fields Medical imaging and computer vision interestingly enough have developed and continue developing somewhat independently Nevertheless bringing them together promises to be better both of these fields We were enthusiastic when the organizers of the 2004 European Conference on Computer Vision ECCV allowed us to organize a satellite workshop devoted to medical image analysis **Mathematical Modelling** C Haines, P Galbraith, W Blum, S Khan, 2007-08-01 This book continues the ICTMA tradition of influencing teaching and learning in the application of mathematical modelling Each chapter shows how real life problems can be discussed during university lectures in school classrooms and industrial research International experts contribute their knowledge and experience by providing analysis insight and comment whilst tackling large and complex problems by

applying mathematical modelling This book covers the proceedings from the Twelfth International Conference on the Teaching of Mathematical Modelling and Applications Covers the proceedings from the Twelfth International Conference on the Teaching of Mathematical Modelling and Applications Continues the ICTMA tradition of influencing teaching and learning in the application of mathematical modelling Shows how real life problems can be discussed during university lectures in school classrooms and industrial research 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 **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* 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 **Theoretical and Mathematical Foundations of Computer Science** Qihai Zhou, 2011-10-29 This book constitutes the refereed post proceedings of the Second International Conference on Theoretical and Mathematical Foundations of Computer Science

ICTMF 2011 held in Singapore in May 2011 The conference was held together with the Second International Conference on High Performance Networking Computing and Communication systems ICHCC 2011 which proceedings are published in CCIS 163 The 84 revised selected papers presented were carefully reviewed and selected for inclusion in the book The topics covered range from computational science engineering and technology to digital signal processing and computational biology to game theory and other related topics

**The Mathematics Education for the Future Project - Proceedings of the 14th International Conference** Alan Rogerson, Janina Morska, 2017-07-01 This volume contains the papers presented at the International Conference on Challenges in Mathematics Education for the Next Decade held from September 10-15 2017 in Balatonfured Hungary The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986

**Mathematical Modeling and Simulation of Systems** Volodymyr Kazymyr, Anatoliy Morozov, Alexander Palagin, Serhiy Shkarlet, Nikolai Stoianov, Dmitri Vinnikov, Mark Zheleznyak, 2025-04-29 This book contains papers on mathematical modeling and simulation of processes in various areas in ecology and the environment manufacturing and energetics information technology samples of special purpose equipment and cyber physical systems In the context of comprehensive digitalization computer modeling becomes a direct component of creating and operating modern complex multi domain systems The outcomes presented in the book will be useful to specialists involved in the modeling of real world and cyber physical systems physical processes simulation management and decision making models functioning and cybersecurity models modeling software and tools Scientists have the opportunity to familiarize themselves with the latest research in a variety of solutions proposed by leading scientists and to determine promising directions for solving complex scientific and practical tasks Chapters of this book contain papers presented at the 19th MODS International Conference November 11-13 2024 Chernihiv Ukraine

**Progress in Industrial Mathematics at ECMI 2008** Alistair D. Fitt, John Norbury, Hilary Ockendon, Eddie Wilson, 2010-07-23 The 15th European Conference on Mathematics for Industry was held in the agreeable surroundings of University College London just 5 minutes walk from the British Museum in the heart of London over the very warm sunny days from 30 June to 4 July 2008 Participants from all over the world met with the common aim of reinforcing the role of mathematics as an overarching resource for industry and business The conference attracted over 300 participants from 30 countries most of them participating with either a contributed talk a minisymposium presentation or a plenary lecture Mathematics in Industry was interpreted in its widest sense as can be seen from the range of applications and techniques described in this volume We mention just two examples The Alan Tayler Lecture was given by Mario Primicerio on a problem arising from moving oil through pipelines when temperature variations affect the shearing properties of wax and thus modify the flow The Wacker Prize winner Master's student Lauri Harhanen from the Helsinki University of Technology showed how a novel piece of mathematics allowed new software to capture real time images of teeth from the data supplied by present day dental machinery see ECMI Newsletter 44 The meeting was attended

by leading figures from government business and science who all shared the same aim to promote the application of innovative mathematics to industry and identify industrial sectors that offer the most exciting opportunities for mathematicians to provide new insight and new ideas

**Mathematical Morphology and its Applications to Image and Signal Processing** Henk J.A.M. Heijmans, Jos Roerdink, 1998-05-31 This book contains the proceedings of the International Symposium on Mathematical Morphology and its Applications to Image and Signal Processing IV held June 3-5 1998 in Amsterdam The Netherlands The purpose of the work is to provide the image analysis community with a sampling of recent developments in theoretical and practical aspects of mathematical morphology and its applications to image and signal processing Among the areas covered are digitization and connectivity skeletonization multivariate morphology morphological segmentation color image processing filter design gray scale morphology fuzzy morphology decomposition of morphological operators random sets and statistical inference differential morphology and scale space morphological algorithms and applications Audience This volume will be of interest to research mathematicians and computer scientists whose work involves mathematical morphology image and signal processing

**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



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