Midterm Exam Solution

May 4, 2020

10:00 A.M. — 12:00 P.M.

Student ID: _____ **Solution** _____

NAME: _____

This is a two-hour exam with open books and open notes. There are four problems in this exam. State your assumptions and reasoning for each problem. Justify your steps and clearly indicate your final answers.

1	**25**
2	**25**
3	**30**
4	**20**
TOTAL	**100**

Digital Image Processing Midterm Exam Solutions

Rafael C. Gonzalez,Richard Eugene Woods

Digital Image Processing Midterm Exam Solutions:

    Digital Image Processing MCQs Arshad Iqbal,2019-06-14 Digital Image Processing Multiple Choice Questions and Answers MCQs Digital image processing quiz questions and answers with practice tests for online exam prep and job interview prep Digital image processing study guide with questions and answers about color image processing digital image fundamentals filtering in frequency domain image compression image restoration and reconstruction image segmentation intensity transformation and spatial filtering introduction to digital image processing morphological image processing wavelet and multi resolution processing Digital image processing trivia questions and answers to get prepare for career placement tests and job interview prep with answers key Practice exam questions and answers about computer science composed from digital image processing textbooks on chapters Color Image Processing Practice Test 50 MCQs Digital Image Fundamentals Practice Test 50 MCQs Filtering in Frequency Domain Practice Test 50 MCQs Image Compression Practice Test 50 MCQs Image Restoration and Reconstruction Practice Test 50 MCQs Image Segmentation Practice Test 150 MCQs Intensity Transformation and Spatial Filtering Practice Test 50 MCQs Introduction to Digital Image Processing Practice Test 50 MCQs Morphological Image Processing Practice Test 50 MCQs Wavelet and Multi resolution Processing Practice Test 50 MCQs Digital image processing interview questions and answers on 10d discrete Fourier transform background of intensity transformation basic edge detection basic intensity transformations functions basics of filtering in frequency domain basics of full color image processing bit plane slicing coding redundancy color fundamentals in color image processing color model in color image processing color models color models in color image processing color transformation constrained least squares filtering contrast stretching convolution color fundamentals Digital image processing test questions and answers on discrete Fourier transform of one variable edge detection in image processing edge detection in segmentation edge models in digital image processing edge models in image segmentation elements of visual perception erosion and dilation estimating degradation function example of using image processing examples in intensity transformation examples of using modalities extension to functions of two variables fidelity criteria filtering concepts Digital image processing exam questions and answers on fundamental steps in digital image processing fundamentals of image compression fundamentals of image segmentation fundamentals of spatial filtering gamma rays imaging geometric mean filter histogram equalization histogram matching histogram processing hit or miss transformation image compression basics image compression models image compression techniques image compressors image erosion image interpolation and re sampling image interpolation in dip image negatives image processing algorithms image reconstruction from projections image sampling and quantization Digital image processing objective questions and answers on image segmentation basics image sensing and acquisition imaging in a radio wave imaging in microwave band imaging in ultraviolet band imaging in visible and infrared band intensity level slicing introduction to wavelet and multi resolution processing inverse filtering light and electromagnetic spectrum line detection in

digital image processing line detection in image segmentation linear position invariant degradation local histogram processing log transformation measuring image information minimum mean square error filtering model of image restoration process Digital image processing certification questions on morphological analysis in image processing morphological image processing *Digital Image Processing* Rafael C. Gonzalez,Richard C. Woods,Richard E. Woods,1992 Completely self contained and heavily illustrated this introduction to basic concepts and methodologies for digital image processing is written at a level that is suitable for seniors and first year graduate students in almost any technical discipline *Digital Image Processing MCQ (Multiple Choice Questions)* Arshad Iqbal,2019-06-13 The Digital Image Processing Multiple Choice Questions MCQ Quiz with Answers PDF Image Processing MCQ PDF Download Quiz Questions Chapter 1 10 Practice Tests with Answer Key Digital Image Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs Digital Image Processing MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Digital Image Processing MCQ PDF book helps to practice test questions from exam prep notes The Digital Image Processing MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Digital Image Processing Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Digital image fundamentals color image processing filtering in frequency domain image compression image restoration and reconstruction image segmentation intensity transformation spatial filtering introduction to digital image processing morphological image processing wavelet multi resolution processing tests for college and university revision guide Digital Image Processing Quiz Questions and Answers PDF free download eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The book Digital Image Processing MCQs Chapter 1 10 PDF includes high school question papers to review practice tests for exams Digital Image Processing Multiple Choice Questions MCQ with Answers PDF digital edition eBook a study guide with textbook chapters tests for NEET Jobs Entry Level competitive exam Digital Image Processing Mock Tests Chapter 1 10 eBook covers problem solving exam tests from computer science textbook and practical eBook chapter wise as Chapter 1 Color Image Processing MCQ Chapter 2 Digital Image Fundamentals MCQ Chapter 3 Filtering in Frequency Domain MCQ Chapter 4 Image Compression MCQ Chapter 5 Image Restoration and Reconstruction MCQ Chapter 6 Image Segmentation MCQ Chapter 7 Intensity Transformation and Spatial Filtering MCQ Chapter 8 Introduction to Digital Image Processing MCQ Chapter 9 Morphological Image Processing MCQ Chapter 10 Wavelet and Multiresolution Processing MCQ The Color Image Processing MCQ PDF e Book Chapter 1 practice test to solve MCQ questions on Basics of full color image processing color fundamentals in color image processing color models color transformation pseudo color image processing smoothing and sharpening The Digital Image Fundamentals MCQ PDF e Book Chapter 2 practice test to solve MCQ questions on Representing digital image elements of visual perception image interpolation image sampling and quantization image sensing and acquisition light and

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transformation providing readers with a solid understanding of how digital images are processed The book emphasizes both theoretical principles and practical applications making it an essential resource for students researchers and professionals in the fields of computer vision machine learning and digital media **Fundamentals of Digital Image Processing:** ANNADURAI,2006 Fundamentals of Digital Image Processing clearly discusses the five fundamental aspects of digital image processing namely image enhancement transformation segmentation compression and restoration Presented in a simple and lucid manner the book aims to provide the reader a sound and firm theoretical knowledge on digital image processing It is supported by large number of colored illustrations *Practical Digital Image Processing* Rhys Lewis,1990 Aims to bridge a gap between introductory texts on image processing and more specialist works which contain considerable amounts of complex mathematics Emphasis is placed on the selection and use of techniques rather than their implementation *Digital Image Processing* Kenneth R. Castleman,1996 Digital image processing has experienced explosive growth over the past two decades Public awareness has increased by way of video games digital video special effects used in the entertainment industry as well as articles in the mainstream press However the most significant impact of digital image processing in the 90s will be in the area of applications to real world problems To help readers keep pace author Kenneth R Castleman concentrates on those techniques that have proven most useful in practice Part I presents several important concepts that can be developed without detailed mathematical analysis for a basic understanding Part II addresses techniques that rely more on mathematics and elaborates analytically on certain concepts introduced in Part I Part III covers specific application areas that are particularly important in industry science and medicine **Digital Image Processing, Global Edition** Rafael C. Gonzalez,Richard E. Woods,2018-06-21 The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed For courses in Image Processing and Computer Vision For years Image Processing has been the foundational text for the study of digital image processing The book is suited for students at the college senior and first year graduate level with prior background in mathematical analysis vectors matrices probability statistics linear systems and computer programming As in all earlier editions the focus of this edition of the book is on fundamentals The 4th Edition is based on an extensive survey of faculty students and independent readers in 5 institutions from 3 countries Their feedback led to expanded or new coverage of topics such as deep learning and deep neural networks including convolutional neural nets the scale invariant feature transform SIFT MERS graph cuts k means clustering and superpiels active contours snakes and level sets and each histogram matching Major improvements were made in reorganising the material on image transforms into a

more cohesive presentation and in the discussion of spatial kernels and spatial filtering Major revisions and additions were made to examples and homework exercises throughout the book   *Digital Image Processing* Rafael C. Gonzalez,Richard E. Woods,2008   **Principles of Digital Image Processing** Wilhelm Burger,Mark J. Burge,2013-11-18 This textbook is the third of three volumes which provide a modern algorithmic introduction to digital image processing designed to be used both by learners desiring a firm foundation on which to build and practitioners in search of critical analysis and concrete implementations of the most important techniques This volume builds upon the introductory material presented in the first two volumes with additional key concepts and methods in image processing Features practical examples and carefully constructed chapter ending exercises real implementations concise mathematical notation and precise algorithmic descriptions designed for programmers and practitioners easily adaptable Java code and completely worked out examples for easy inclusion in existing applications uses ImageJ provides a supplementary website with the complete Java source code test images and corrections additional presentation tools for instructors including a complete set of figures tables and mathematical elements   *Digital Image Processing* Rafael C. Gonzalez,Paul A. Wintz,1987 Possibly the best book available as a text for a first course in digital image processing this book can be used for both upper level courses in computer science or electrical engineering and also can be applied to the industrial market   DIGITAL IMAGE PROCESSING NARAYAN CHANGDER,2024-02-27 Note Anyone can request the PDF version of this practice set workbook by emailing me at cbsenet4u gmail com You can also get full PDF books in quiz format on our youtube channel https www youtube com SmartQuizWorld n2q I will send you a PDF version of this workbook This book has been designed for candidates preparing for various competitive examinations It contains many objective questions specifically designed for different exams Answer keys are provided at the end of each page It will undoubtedly serve as the best preparation material for aspirants This book is an engaging quiz eBook for all and offers something for everyone This book will satisfy the curiosity of most students while also challenging their trivia skills and introducing them to new information Use this invaluable book to test your subject matter expertise Multiple choice exams are a common assessment method that all prospective candidates must be familiar with in today s academic environment Although the majority of students are accustomed to this MCQ format many are not well versed in it To achieve success in MCQ tests quizzes and trivia challenges one requires test taking techniques and skills in addition to subject knowledge It also provides you with the skills and information you need to achieve a good score in challenging tests or competitive examinations Whether you have studied the subject on your own read for pleasure or completed coursework it will assess your knowledge and prepare you for competitive exams quizzes trivia and more
     Image Processing Recipes in MATLAB® Oge Marques,Gustavo Benvenutti Borba,2024-05-16 Leveraging the latest developments in MATLAB and its image processing toolbox this cookbook is a collection of 30 practical recipes for image processing ranging from foundational techniques to recently published algorithms Presented in a clear and meaningful

sequence these recipes are prepared with the reader in mind allowing one to focus on particular topics or read as a whole from cover to cover Key Features A practical user friendly guide that equips researchers and practitioners with the tools to implement efficient image processing workflows in MATLAB Each recipe is presented through clear step by step instructions and rich visual examples Each recipe contains its own source code explanations and figures making the book an excellent standalone resource for quick reference Strategically structured to aid sequential learning yet with self contained chapters for those seeking solutions to specific image processing challenges The book serves as a concise and readable practical reference to deploy image processing pipelines in MATLAB quickly and efficiently With its accessible and practical approach the book is a valuable guide for those who navigate this evolving area including researchers students developers and practitioners in the fields of image processing computer vision and image analysis **Introduction to Digital Image Processing** William K. Pratt,2013-09-13 The subject of digital image processing has migrated from a graduate to a junior or senior level course as students become more proficient in mathematical background earlier in their college education With that in mind Introduction to Digital Image Processing is simpler in terms of mathematical derivations and eliminates derivations of advanced s *Fundamentals of Digital Image Processing* Chris Solomon,Toby Breckon,2011-07-05 This is an introductory to intermediate level text on the science of image processing which employs the Matlab programming language to illustrate some of the elementary key concepts in modern image processing and pattern recognition The approach taken is essentially practical and the book offers a framework within which the concepts can be understood by a series of well chosen examples exercises and computer experiments drawing on specific examples from within science medicine and engineering Clearly divided into eleven distinct chapters the book begins with a fast start introduction to image processing to enhance the accessibility of later topics Subsequent chapters offer increasingly advanced discussion of topics involving more challenging concepts with the final chapter looking at the application of automated image classification with Matlab examples Matlab is frequently used in the book as a tool for demonstrations conducting experiments and for solving problems as it is both ideally suited to this role and is widely available Prior experience of Matlab is not required and those without access to Matlab can still benefit from the independent presentation of topics and numerous examples Features a companion website www wiley com go solomon fundamentals containing a Matlab fast start primer further exercises examples instructor resources and accessibility to all files corresponding to the examples and exercises within the book itself Includes numerous examples graded exercises and computer experiments to support both students and instructors alike *Digital Image Processing Using MATLAB* Rafael C. Gonzalez,Richard Eugene Woods,Steven L. Eddins,2004 Solutions to problems in the field of digital image processing generally require extensive experimental work involving software simulation and testing with large sets of sample images Although algorithm development typically is based on theoretical underpinnings the actual implementation of these algorithms almost always requires parameter estimation and frequently algorithm

revision and comparison of candidate solutions Thus selection of a flexible comprehensive and well documented software development environment is a key factor that has important implications in the cost development time and portability of image processing solutions In spite of its importance surprisingly little has been written on this aspect of the field in the form of textbook material dealing with both theoretical principles and software implementation of digital image processing concepts This book was written for just this purpose Its main objective is to provide a foundation for implementing image processing algorithms using modern software tools A complementary objective was to prepare a book that is self contained and easily readable by individuals with a basic background in digital image processing mathematical analysis and computer programming all at a level typical of that found in a junior senior curriculum in a technical discipline Rudimentary knowledge of MATLAB also is desirable To achieve these objectives we felt that two key ingredients were needed The first was to select image processing material that is representative of material covered in a formal course of instruction in this field The second was to select software tools that are well supported and documented and which have a wide range of applications in the real world To meet the first objective most of the theoretical concepts in the following chapters were selected fromDigital Image Processingby Gonzalez and Woods which has been the choice introductory textbook used by educators all over the world for over two decades The software tools selected are from the MATLAB Image Processing Toolbox IPT which similarly occupies a position of eminence in both education and industrial applications A basic strategy followed in the preparation of the book was to provide a seamless integration of well established theoretical concepts and their implementation using state of the art software tools The book is organized along the same lines asDigital Image Processing In this way the reader has easy access to a more detailed treatment of all the image processing concepts discussed here as well as an up to date set of references for further reading Following this approach made it possible to present theoretical material in a succinct manner and thus we were able to maintain a focus on the software implementation aspects of image processing problem solutions Because it works in the MATLAB computing environment the Image Processing Toolbox offers some significant advantages not only f in the breadth of its computational tools but also because it is supported under most operating systems in use today A unique feature of this book is its emphasis on showing how to develop new code to enhance existing MATLAB and IPT functionality This is an important feature in an area such as image processing which as noted earlier is characterized by the need for extensive algorithm development and experimental work After an introduction to the fundamentals of MATLAB functions and programming the book proceeds to address the mainstream areas of image processing The major areas covered include intensity transformations linear and nonlinear spatial filtering filtering in the frequency domain image restoration and registration color image processing wavelets image data compression morphological image processing image segmentation region and boundary representation and description and object recognition This material is complemented by numerous illustrations of how to solve image processing problems using MATLAB and IPT functions In cases where a function did not

exist a new function was written and documented as part of the instructional focus of the book Over 60 new functions are included in the following chapters These functions increase the scope of IPT by approximately 35 percent and also serve the important purpose of further illustrating how to implement new image processing software solutions The material is presented in textbook format not as a software manual Although the book is self contained we have established a companion Web site see Section 1 5 designed to provide support in a number of areas For students following a formal course of study or individuals embarked on a program of self study the site contains tutorials and reviews on background material as well as projects and image databases including all images in the book For instructors the site contains classroom presentation materials that include PowerPoint slides of all the images and graphics used in the book Individuals already familiar with image processing and IPT fundamentals will find the site a useful place for up to date references new implementation techniques and a host of other support material not easily found elsewhere All purchasers of the book are eligible to download executable files of all the new functions developed in the text As is true of most writing efforts of this nature progress continues after work on the manuscript stops For this reason we devoted significant effort to the selection of material that we believe is fundamental and whose value is likely to remain applicable in a rapidly evolving body of knowledge We trust that readers of the book will benefit from this effort and thus find the material timely and useful in their work *DIGITAL IMAGE PROCESSING.* RAJKUMAR.,2018 Digital Image Processing A. Baskar,Muthaiah Rajappa,Shriram K. Vasudevan,T. S. Murugesh,2023 The book augurs to be a mix of theoretical and practical perceptions of the related concepts pertaining to image processing The primary objectives orient to offer an overview to the elementary concepts and practices appropriate to DIP as well as to provide theoretical exposition It starts with an expanded coverage of the fundamentals to provide a more comprehensive and cohesive coverage of the topics **Digital Image Processing** Mr. Bandam Narendar,Mr. Gopala Krishna VB,Mr. Marsakatla Sundara Rao,Mr. N. Sateesh,2024-06-21 Digital Image Processing the fundamentals and advanced techniques used to analyze enhance and transform digital images It covers key concepts like image representation filtering segmentation restoration and compression This both the theoretical foundations and practical applications of image processing making it suitable for students and professionals in fields such as computer science engineering and applied sciences With a balance of algorithms examples and visual illustrations it provides readers with a comprehensive understanding of how digital images are processed and utilized in modern technology **Fundamentals of Digital Image Processing** Anil K. Jain,1989 Two Dimensional Systems and Mathematical Preliminaries Image Perception Image Sampling and Quantization Image Transforms Image Representation by Stochastic Models Image Enhancement Image Filtering and Restoration Image Analysis and Computer Vision Image Reconstruction From Projections Image Data Compression

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