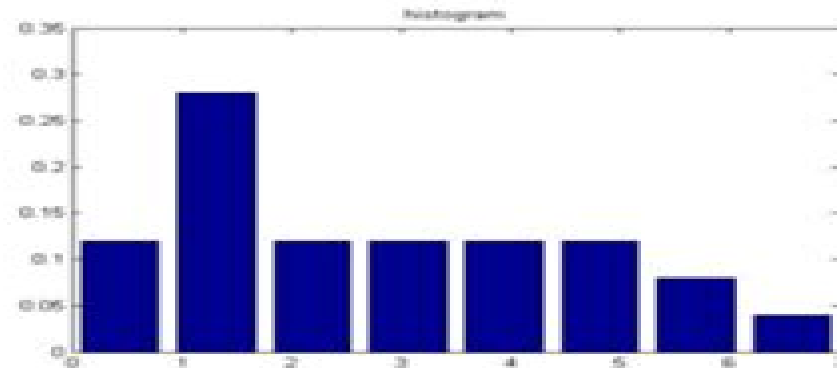


CE 490 Introduction to Digital Image Processing
MIDTERM EXAM SOLUTIONS

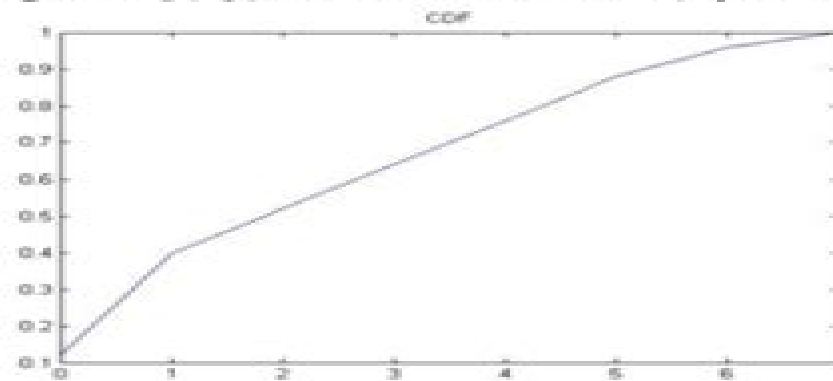
Q1. (25 points) For the following 5 x 5 image $f(x,y)$ with 3 bits per pixel, i.e. pixel values in $\{0,1,\dots,7\}$:

$$f(x,y) = \begin{array}{ccccc} 0 & 0 & 1 & 1 & 2 \\ 0 & 1 & 1 & 2 & 4 \\ 1 & 1 & 2 & 4 & 5 \\ 1 & 3 & 4 & 5 & 6 \\ 3 & 3 & 5 & 6 & 7 \end{array}$$

(a) compute the histogram of the original image $f(x,y)$.



(b) find a transformation function $g(x,y) = T(f(x,y))$ that will approximately equalize the histogram of $f(x,y)$. Find the transformed (equalized) image, $g(x,y)$.



Digital Image Processing Midterm Exam Solutions

**Dr. D. Rajasekhar, Dr. Rashmi, Mr. R.A.
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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 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

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analysis and a new section on image morphology Digital Image Processing Rafael C. Gonzalez, Richard E. Woods, 2008

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 and Pattern Recognition**

Pakhira Malay K., 2011-02 This book is designed for undergraduate and postgraduate students of Computer Science and Engineering Information Technology Electronics and Communication Engineering and Electrical Engineering The book comprehensively covers all the important topics in digital image processing and pattern recognition along with the fundamental concepts mathematical preliminaries and theoretical derivations of significant theorems The image processing topics include coverage of image formation digitization lower level processing image analysis image compression and so on The topics on pattern recognition include statistical decision making decision tree learning artificial neural networks clustering and others An application of simulated annealing for edge detection is described in an appendix The book is profusely illustrated with more than 200 figures and sketches as an added feature KEY FEATURES Provides a large number of worked examples to strengthen the grasp of the concepts Lays considerable emphasis on the algorithms in order to teach students how to write good practical programs for problem solving Devotes a separate chapter to currently used image format standards Offers problems at the end of each chapter to help students test their understanding of the fundamentals of the subject **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 **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 *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

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Processing: Practical Approach Borko Furht, Esad Akar, Whitney Angelica Andrews, 2018-08-28 The SpringerBrief covers fundamentals of digital image processing including image concept image file formats creating user interfaces and many practical examples of processing images using C and Java These practical examples include among other creating image histograms performing lossless image compression detecting change in colors similarity based image retrieval and others All practical examples are accompanied with an explanation how to create programs and the obtained results This SpringerBrief can be very useful for the undergraduate courses on image processing providing students with the basic tools in image analysis and processing Practitioners and researchers working in this field will also find this research useful *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 from Digital Image Processing by 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 as Digital 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 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.

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* Oxford University Press,2018 Principles of Digital Image Processing Dr. D. Rajasekhar,Dr. Rashmi,Mr. R.A. Manoj Kumar,S. Dhanalakshmi,2024-10-18 Principles of Digital Image Processing the techniques and methodologies used in the manipulation and analysis of digital images The fundamental concepts of image representation enhancement restoration and 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 *Image Processing Recipes in MATLAB®* Oge Marques,Gustavo Benvenuto 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 **Digital Image Processing** Gregory A. Baxes,1984 The scope of this book is broad providing coverage on the introductory topics associated with digital image processing Whether used in the lab as a practical and visual support to a standard college level text or as a primer for the uninitiated this book is intended to provide a fundamental resource 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

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