

CSCE 5683 – Digital Image Processing
Final Exam – Spring 2009

Instructions:

- This is a two-hour closed book final exam.
- You are allowed one 8.5x11 page of notes.
- Answer all of the questions below.

Question #1

- Describe how histogram equalization operates. Be specific about the algorithm and use equations and diagrams as necessary to explain how this technique works.
- Apply histogram equalization to the 5x5 image below to perform image enhancement. You are welcome to use any output pixel range you wish.

2	2	3	9	9
2	2	3	9	9
3	3	3	9	9
9	9	9	9	9
9	9	9	9	8

Question #2

The traditional method to implement neighborhood averaging is to perform a convolution with an $M \times M$ mask of 1's. One way to improve the computation time is to take advantage of the fact that the neighborhood for $[x+1, y]$ will overlap most of the neighborhood for $[x, y]$. Hence, we can calculate the average for pixel $[x+1, y]$ in terms of the average for pixel $[x, y]$ plus M pixels that are added to the right side of the $[x+1, y]$ region, minus M pixels that are removed from the left side of the $[x, y]$ region.

- How many operations are needed to calculate each output value using the traditional neighborhood averaging for $M \times M$ masks as M varies from 1 to 10?
- How many operations are needed to implement the fancy neighborhood averaging algorithm described above as M varies from 1 to 10?
- Do you think this approach can be used for any convolution operation? Explain why or why not.
- Do you think this approach can be extended to work for median filtering? Explain why or why not.

Sample Final Exam Solution On Digital Image Processing

SJ Ball



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Digital Image Processing Wilhelm Burger, Mark J. Burge, 2022-07-23 This modern self contained textbook provides an accessible introduction to the field from the perspective of a practicing programmer supporting a detailed presentation of the fundamental concepts and techniques with practical exercises and fully worked out implementation examples This much anticipated 3rd edition of the definitive textbook on Digital Image Processing has been completely revised and expanded with new content improved illustrations and teaching material Topics and features Contains new chapters on fitting of geometric primitives randomized feature detection RANSAC and maximally stable extremal regions MSER Includes exercises for most chapters and provides additional supplementary materials and software implementations at an associated website Uses ImageJ for all examples a widely used

open source imaging environment that can run on all major platforms Describes each solution in a stepwise manner in mathematical form as abstract pseudocode algorithms and as complete Java programs that can be easily ported to other programming languages Presents suggested outlines for a one or two semester course in the preface Advanced undergraduate and graduate students will find this comprehensive and example rich textbook will serve as the ideal introduction to digital image processing It will also prove invaluable to researchers and professionals seeking a practically focused self study primer

Digital Image Processing J M Blackledge, 2005-11-30 This authoritative text the second part of a complete MSc course provides mathematical methods required to describe images image formation and different imaging systems coupled with the principle techniques used for processing digital images It is based on a course for postgraduates reading physics electronic engineering telecommunications engineering information technology and computer science This book relates the methods of processing and interpreting digital images to the physics of imaging systems Case studies reinforce the methods discussed with examples of current research themes Provides mathematical methods required to describe images image formation and different imaging systems Outlines the principle techniques used for processing digital images Relates the methods of processing and interpreting digital images to the physics of imaging systems

Digital Image Processing Techniques Michael P. Ekstrom, 2012-12-02 Digital Image Processing Techniques is a state of the art review of digital image processing techniques with emphasis on the processing approaches and their associated algorithms A canonical set of image processing problems that represent the class of functions typically required in most image processing applications is presented Each chapter broadly addresses the problem being considered the best techniques for this particular problem and how they work their strengths and limitations and how the techniques are actually implemented as well as their computational aspects Comprised of eight chapters this volume begins with a discussion on processing techniques associated with the following tasks image enhancement restoration detection and estimation reconstruction and analysis along with image data compression and image spectral estimation The second section describes hardware and software systems for digital image processing Aspects of commercially available systems that combine both processing and display functions are considered as are future prospects for their technological and architectural evolution The specifics of system design trade offs are explicitly presented in detail This book will be of interest to students practitioners and researchers in various disciplines including digital signal processing computer science statistical communications theory control systems and applied physics

Digital Image Processing and Analysis Scott E Umbaugh, 2022-12-30 Digital Image Enhancement Restoration and Compression focuses on human vision based imaging application development Examples include making poor images look better the development of advanced compression algorithms special effects imaging for motion pictures and the restoration of satellite images distorted by atmospheric disturbance This book presents a unique engineering approach to the practice of digital imaging which starts by presenting a

global model to help gain an understanding of the overall process followed by a breakdown and explanation of each individual topic Topics are presented as they become necessary for understanding the practical imaging model under study which provides the reader with the motivation to learn about and use the tools and methods being explored The book includes chapters on imaging systems and software the human visual system image transforms image filtering image enhancement image restoration and image compression Numerous examples including over 700 color images are used to illustrate the concepts discussed Readers can explore their own application development with any programming language including C C MATLAB Python and R and software is provided for both the Windows C C and MATLAB environments The book can be used by the academic community in teaching and research with over 1 000 PowerPoint slides and a complete solutions manual to the over 230 included problems It can also be used for self study by those involved with application development whether they are engineers scientists or artists The new edition has been extensively updated and includes numerous problems and programming exercises that will help the reader and student develop their skills

Advanced Digital Image Processing and Its Applications in Big Data Ankur Dumka, Alaknanda Ashok, Parag Verma, Poonam Verma, 2020-12-09 This book covers the technology of digital image processing in various fields with big data and their applications Readers will understand various technologies and strategies used in digital image processing as well as handling big data using machine learning techniques This book will help to improve the skills of students and researchers in such fields as engineering agriculture and medical imaging There is a need to be able to understand and analyse the latest developments of digital image technology As such this book will cover Applications such as biomedical science and biometric image processing content based image retrieval remote sensing pattern recognition shape and texture analysis New concepts in color interpolation to produce the full color from the sub pattern bare pattern color prevalent in today's digital cameras and other imaging devices Image compression standards that are needed to serve diverse applications Applications of remote sensing medical science traffic management education innovation and analysis in agricultural design and image processing Both soft and hard computing approaches at great length in relation to major image processing tasks The direction and development of current and future research in many areas of image processing A comprehensive bibliography for additional research integrated within the framework of the book This book focuses not only on theoretical and practical knowledge in the field but also on the traditional and latest tools and techniques adopted in image processing and data science It also provides an indispensable guide to a wide range of basic and advanced techniques in the fields of image processing and data science

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Cognitive Systems and Signal Processing in Image Processing Yu-Dong Zhang, Arun Kumar Sangaiah, 2021-11-28
Cognitive Systems and Signal Processing in Image Processing presents different frameworks and applications of cognitive signal processing methods in image processing This book provides an overview of recent applications in image processing by cognitive signal processing methods in the context of Big Data and Cognitive AI It presents the amalgamation of cognitive systems and signal processing in the context of image processing approaches in solving various real word application domains This book reports the latest progress in cognitive big data and sustainable computing Various real time case studies and implemented works are discussed for better understanding and more clarity to readers The combined model of cognitive data intelligence with learning methods can be used to analyze emerging patterns spot business opportunities and take care of critical process centric issues for computer vision in real time Presents cognitive signal processing methodologies that are related to challenging image processing application domains Provides the state of the art in cognitive signal processing

approaches in the area of big data image processing Focuses on other technical aspects and alternatives to traditional tools algorithms and methodologies Discusses various real time case studies and implemented works Biomedical Signal and Image Processing Kayvan Najarian,Robert Splinter,2016-04-19 Written for senior level and first year graduate students in biomedical signal and image processing this book describes fundamental signal and image processing techniques that are used to process biomedical information The book also discusses application of these techniques in the processing of some of the main biomedical signals and images such as EEG ECG MRI and CT New features of this edition include the technical updating of each chapter along with the addition of many more examples the majority of which are MATLAB based AWS Certified Solutions Architect Study Guide with 900 Practice Test Questions Ben Piper,David Clinton,2022-09-13 Master Amazon Web Services solution delivery and efficiently prepare for the AWS Certified SAA C03 Exam with this all in one study guide The AWS Certified Solutions Architect Study Guide Associate SAA C03 Exam 4th Edition comprehensively and effectively prepares you for the challenging SAA C03 Exam This Study Guide contains efficient and accurate study tools that will help you succeed on the exam It offers access to the Sybex online learning environment and test bank containing hundreds of test questions bonus practice exams a glossary of key terms and electronic flashcards This one year free access is supported by Wiley s support agents who are available 24x7 via email or live chat to assist with access and login questions In this complete and authoritative exam prep blueprint Ben Piper and David Clinton show you how to Design resilient AWS architectures Create high performing solutions Craft secure applications and architectures Design inexpensive and cost optimized architectures An essential resource for anyone trying to start a new career as an Amazon Web Services cloud solutions architect the AWS Certified Solutions Architect Study Guide Associate SAA C03 Exam 4th Edition will also prove invaluable to currently practicing AWS professionals looking to brush up on the fundamentals of their work *Encyclopedia of Image Processing* Phillip A. Laplante,2018-11-08 The Encyclopedia of Image Processing presents a vast collection of well written articles covering image processing fundamentals e g color theory fuzzy sets cryptography and applications e g geographic information systems traffic analysis forgery detection Image processing advances have enabled many applications in healthcare avionics robotics natural resource discovery and defense which makes this text a key asset for both academic and industrial libraries and applied scientists and engineers working in any field that utilizes image processing Written by experts from both academia and industry it is structured using the ACM Computing Classification System CCS first published in 1988 but most recently updated in 2012 Digital Processes Moritz Hauschild,Rüdiger Karzel,2012-12-10 these days a computer is as much a part of every household s standard equipment as a refrigerator and yet the explosion of computer technology in the last several decades has transformed the daily life of every member of society far more than even utopians would ever have allowed themselves to dream No wonder then that from design to production architecture too is becoming more and more subject to digital influences The range of those influences stretches from the classical computer programs

used in design and presentation to media supported design processes all the way to computerized production techniques to say nothing of industrialized bricklayer robots From measurement to planning and production architecture is the product of a closely coordinated digital process chain What influence do digital design digital design and production methods have on contemporary architecture How are these methods changing architecture and the way it is created Where does the potential of digital media for architecture lie What are the areas in which every individual firm can begin to use them What are the advantages of working electronically How and at what cost can these methods be integrated into the day to day work of the professional architect This publication offers answers to these and many other questions on all aspects of the digital design and construction process *ERDA Energy Research Abstracts* United States. Energy Research and Development

Administration. Technical Information Center,1977 **The Interdisciplinary Program for Radiation Oncology**

Research ,1984 *ERDA Energy Research Abstracts* United States. Energy Research and Development

Administration,1977 *Encyclopedia of Computer Science and Technology, Second Edition (Set)* Phillip A.

Laplane,2017-10-02 With breadth and depth of coverage the Encyclopedia of Computer Science and Technology Second Edition has a multi disciplinary scope drawing together comprehensive coverage of the inter related aspects of computer science and technology The topics covered in this encyclopedia include General and reference Hardware Computer systems organization Networks Software and its engineering Theory of computation Mathematics of computing Information systems Security and privacy Human centered computing Computing methodologies Applied computing Professional issues Leading figures in the history of computer science The encyclopedia is structured according to the ACM Computing Classification System CCS first published in 1988 but subsequently revised in 2012 This classification system is the most comprehensive and is considered the de facto ontological framework for the computing field The encyclopedia brings together the information and historical context that students practicing professionals researchers and academicians need to have a strong and solid foundation in all aspects of computer science and technology *ERDA Energy Research Abstracts* ,1977

Saving Women's Lives National Research Council,Institute of Medicine,Policy and Global Affairs,Board on Science, Technology, and Economic Policy,National Cancer Policy Board,Committee on New Approaches to Early Detection and Diagnosis of Breast Cancer,2005-03-18 The outlook for women with breast cancer has improved in recent years Due to the combination of improved treatments and the benefits of mammography screening breast cancer mortality has decreased steadily since 1989 Yet breast cancer remains a major problem second only to lung cancer as a leading cause of death from cancer for women To date no means to prevent breast cancer has been discovered and experience has shown that treatments are most effective when a cancer is detected early before it has spread to other tissues These two facts suggest that the most effective way to continue reducing the death toll from breast cancer is improved early detection and diagnosis Building on the 2001 report Mammography and Beyond this new book not only examines ways to improve implementation and use of new

and current breast cancer detection technologies but also evaluates the need to develop tools that identify women who would benefit most from early detection screening Saving Women s Lives Strategies for Improving Breast Cancer Detection and Diagnosis encourages more research that integrates the development validation and analysis of the types of technologies in clinical practice that promote improved risk identification techniques In this way methods and technologies that improve detection and diagnosis can be more effectively developed and implemented Light and Video Microscopy Randy O. Wayne,2010-07-28 The purpose of this book is to provide the most comprehensive easy to use and informative guide on light microscopy Light and Video Microscopy will prepare the reader for the accurate interpretation of an image and understanding of the living cell With the presentation of geometrical optics it will assist the reader in understanding image formation and light movement within the microscope It also provides an explanation of the basic modes of light microscopy and the components of modern electronic imaging systems and guides the reader in determining the physicochemical information of living and developing cells which influence interpretation Brings together mathematics physics and biology to provide a broad and deep understanding of the light microscope Clearly develops all ideas from historical and logical foundations Laboratory exercises included to assist the reader with practical applications Microscope discussions include bright field microscope dark field microscope oblique illumination phase contrast microscope photomicrography fluorescence microscope polarization microscope interference microscope differential interference microscope and modulation contrast microscope **Get NWDA JE Important Questions on major topics in PDF form here!** Testbook,2023-03-27 Solve these questions to boost your scores Clear the NWDA JE cut off by referring to this PDF also get study notes for your exam preparation that has all the important questions and explanations

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