

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.

Digital Image Processing Exam Solution

Scott E Umbaugh



Digital Image Processing Exam Solution:

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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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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

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

Introduction to Digital Image Processing Mr. Rohit Manglik,2024-07-28 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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

Computational Methods in Science and Technology Sukhpreet Kaur,Sushil Kamboj,Manish Kumar,Arvind Dagur,Dhirendra Kumar Shukla,2024-10-10 This book contains the proceedings of the 4TH International Conference on Computational Methods in Science and Technology ICCMST 2024 The proceedings explores research and innovation in the field of Internet of things Cloud Computing Machine Learning Networks System Design and Methodologies Big Data Analytics and Applications ICT for Sustainable Environment Artificial Intelligence and it provides real time assistance and security for advanced stage learners researchers and academicians has been presented This will be a valuable

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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, 2005-04-18 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

IOT with Smart Systems Tomonobu Senjyu, Parakshit Mahalle, Thinagaran Perumal, Amit Joshi, 2022-01-05 This book gathers papers addressing state of the art research in all areas of information and communication technologies and their applications in intelligent computing cloud storage data mining and software analysis It presents the outcomes of the Fifth International Conference on Information and Communication Technology for Intelligent Systems ICTIS 2021 held in Ahmedabad India The book is divided into two volumes It discusses the fundamentals of various data analysis techniques and algorithms making it a valuable resource for researchers and practitioners alike

Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy United States Air Force Academy, 2003 *Examination Review for Radiography* Shelley Giordano, 2013-08 Examination Review for Radiography is an engaging print and online resource that is the perfect way to prepare for the American Registry of Radiologic Technologists ARRT general radiography registry examination Featuring an online exam simulator that contains more than 2 000 multiple choice questions directly correlated to the AART's content specifications Examination Review for Radiography is the only book on the market that makes it possible to take as many as three online 220 question mock registry exams without ever duplicating a question Online practice tests can be timed to simulate the actual three hour certification exam or untimed to help build speed and confidence Also included are a sample

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Intelligent IT Solutions to Promote Indigenous Innovations Balvinder Shukla, Mahadeo Jaiswal, Nitasha Hasteer, Rahul Sindhwani, Sangeeta Khorana, 2025-08-02 The proceedings of 6th International Conference on Entrepreneurship Innovation and Leadership ICEIL 2024 would focus on Intelligent IT Solutions to promote indigenous innovations The book will be a catalyst for transformative change inspiring a collective effort towards harnessing the power of technology for sustainable self reliant development This book will be a compilation of latest technological advancements and state of the art research in the emerging technologies like artificial intelligence blockchain internet of things quantum computing etc This book will be useful for students research scholars and practitioners from different disciplines to enhance their knowledge **Mini-micro Systems**, 1983 World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany Olaf Dössel, Wolfgang C. Schlegel, 2010-01-04 Present Your Research to the World The World Congress 2009 on Medical Physics and Biomedical Engineering the triennial scientific meeting of the IUPESM is the world's leading forum for presenting the results of current scientific work in health related physics and technologies to an international audience With more than 2 800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009 Medical physics biomedical engineering and bioengineering have been driving

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