#### 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 <u>histogram equalization</u> 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 MxM 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 MxM 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**

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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 <u>Introduction to Digital Image</u> 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 **Computer Vision Exam Preparation** Cybellium, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT Al Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of

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Geography Solved Papers. YCT Expert Team, 2025 26 TGT PGT GIC Geography Solved Papers 1008 995 E This book contains 166 sets of the previous year solved papers 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 Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy United States Air Force Academy, 2003 Earth Science Ouestions and Answers PDF Arshad Igbal, The Earth Science Quiz Questions and Answers PDF Earth Science Competitive Exam Questions Chapter 1 26 Practice Tests Class 8 12 Earth Science Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Earth Science Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Earth Science Quiz PDF book helps to practice test questions from exam prep notes The Earth Science Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Earth Science Objective Questions and Answers PDF Free Download chapter 1 a book covers solved common questions and answers on chapters Agents of erosion and deposition atmosphere composition atmosphere layers earth atmosphere earth models and maps earth science and models earthquakes energy resources minerals and earth crust movement of ocean oceanography ocean water oceans exploration oceans of world planets facts planets for kids plates tectonics restless earth plate tectonics rocks and minerals mixtures solar system for kids solar system formation space astronomy space science stars galaxies and universe tectonic plates for kids temperature weather and climate tests for school and college revision guide Science Interview Questions and Answers PDF Download free eBook s sample covers beginner's solved questions textbook's study notes to practice online tests The Earth Science Interview Questions Chapter 1

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