



Muhammad Atta Othman A. Khfagy

# **Artificial Neural Networks Applied For Digital Images with Matlab Code**

The Applications of Artificial Intelligence In Image  
Processing Field Using Matlab



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# Artificial Neural Networks Applied For Digital Images With Matlab Code The Applications Of Artificial Intelligence In Image Processing Field Using Matlab

**Valentina Zharkova**



## **Artificial Neural Networks Applied For Digital Images With Matlab Code The Applications Of Artificial Intelligence In Image Processing Field Using Matlab:**

*Artificial Neural Networks Applied For Digital Images with Matlab Code* Muhammad Atta Othman A. Khfagy, 2014-07-24 Artificial Neural Networks have broad applications to the real world business problems They have already been successfully applied in many industries Since neural networks are best at identifying patterns or trends in data they are well suited for prediction or forecasting These include Sales forecasting Industrial process control Customer research Data validation Risk management Target marketing The work studies the use of Artificial Neural Network in the field of Image Processing One of the applications studied is the edge detection process Edge detection of an image significantly reduces the amount of data and filters out useless information while preserving the important structural properties in an image Edges detection of digital images is used in a various fields of applications ranging from real time video surveillance and traffic management to medical imaging applications The work demonstrates both entropy and Neural Network based edge detection methods where Renyi s Entropy and Convolutional Neural Network based edge detection is proposed and their results are compared **Artificial Intelligence in Recognition and Classification of Astrophysical and Medical Images** Valentina Zharkova, 2007-03-07 This book presents innovative techniques in recognition and classification of astrophysical and medical images Coverage includes image standardization and enhancement region based methods for pattern recognition in medical and astrophysical images advanced information processing using statistical methods and feature recognition and classification using spectral method **Scientific and Technical Aerospace Reports** ,1995 *Advance Concepts of Image Processing and Pattern Recognition* Narendra Kumar, Celia Shahnaz, Krishna Kumar, Mazin Abed Mohammed, Ram Shringar Raw, 2022-02-21 The book explains the important concepts and principles of image processing to implement the algorithms and techniques to discover new problems and applications It contains numerous fundamental and advanced image processing algorithms and pattern recognition techniques to illustrate the framework It presents essential background theory shape methods texture about new methods and techniques for image processing and pattern recognition It maintains a good balance between a mathematical background and practical implementation This book also contains the comparison table and images that are used to show the results of enhanced techniques This book consists of novel concepts and hybrid methods for providing effective solutions for society It also includes a detailed explanation of algorithms in various programming languages like MATLAB Python etc The security features of image processing like image watermarking and image encryption etc are also discussed in this book This book will be useful for those who are working in the field of image processing pattern recognition and security for digital images This book targets researchers academicians industry and professionals from R D organizations and students healthcare professionals working in the field of medical imaging telemedicine cybersecurity data scientist artificial intelligence image processing digital hospital intelligent medicine *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

Image Processing using Pulse-Coupled Neural Networks Thomas Lindblad, Jason M. Kinser, 2013-05-13 Image processing algorithms based on the mammalian visual cortex are powerful tools for extraction information and manipulating images This book reviews the neural theory and translates them into digital models Applications are given in areas of image recognition foveation image fusion and information extraction The third edition reflects renewed international interest in pulse image processing with updated sections presenting several newly developed applications This edition also introduces a suite of Python scripts that assist readers in replicating results presented in the text and to further develop their own applications

Applications of Artificial Neural Networks in Image Processing, 1997 **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

### **Convolutional Neural Networks for Medical Image Processing Applications**

Saban Ozturk,2022-12-23 The rise in living standards increases the expectation of people in almost every field At the forefront is health Over the past few centuries there have been major developments in healthcare Medical device technology and developments in artificial intelligence AI are among the most important ones The improving technology and our ability to harness the technology effectively by means such as AI have led to unprecedented advances resulting in early diagnosis of diseases AI algorithms enable the fast and early evaluation of images from medical devices to maximize the benefits While developments in the field of AI were quickly adapted to the field of health in some cases this contributed to the formation of innovative artificial intelligence algorithms Today the most effective artificial intelligence method is accepted as deep learning Convolutional neural network CNN architectures are deep learning algorithms used for image processing This book contains applications of CNN methods The content is quite extensive including the application of different CNN methods to various medical image processing problems Readers will be able to analyze the effects of CNN methods presented in the book in medical applications

### **Fusion of Artificial Intelligence and Machine Learning in Advanced Image Processing**

Arun Kumar Rana,Rashmi Gupta,Sharad Sharma,Ahmed A. Elngar,Sachin Dhawan,2024-11-22 This book focuses on the fusion of artificial intelligence and machine learning in advanced image processing data analysis and cyber security as well as compiles and discusses various engineering solutions using various artificial intelligence paradigms It looks at recent technological advancements and considers how artificial intelligence machine learning deep learning soft computing and evolutionary computing techniques can be used to design implement and optimize advanced image processing data analysis and cyber security engineering solutions It will readers develop the insight required to use the tools of digital imaging to solve new problems The book is divided into sections that deal with Artificial intelligence and machine learning in medicine and healthcare Intelligent decision making and analysis technology Machine learning and deep learning for agriculture Artificial intelligence and machine learning for security solutions Automation in image processing Fusion of Artificial Intelligence and Machine Learning for Advanced Image Processing Data Analysis and Cyber Security offers a selection of chapters on the application of artificial intelligence and machine learning for advanced image processing data analysis and cyber security This book will surely enhance the knowledge of readers interested in these areas

### **Digital Image Processing**

- Latest Advances and Applications Francisco Cuevas,Pier Luigi Mazzeo,Alessandro Bruno,2024-07-24 This book offers a comprehensive analysis of image processing and its many applications in various fields From improving the resolution of blurry images to identifying crop pests optimizing water resource management and extracting crucial details from photographs and videos it covers a wide range of techniques and uses Readers will be immersed in the fascinating world of image edge detection combining color based multidimensional scaling maps to highlight areas of saliency and using deep learning to transform perception in driver assistance systems and autonomous vehicles Additionally they will explore how visual recognition can predict crack trajectories bionic color theory and the creation of realistic simulations of radar images A highlight of the book is its focus on the revolutionary application of image processing in dentistry from making precise measurements to developing next generation dental biometrics systems With a detailed and broad overview this book provides readers with the tools and knowledge necessary to unlock the potential hidden in images opening up new possibilities and applications in fields ranging from agriculture and medicine to technology and science **Image**

**Processing using Pulse-Coupled Neural Networks** Thomas Lindblad,Jason M. Kinser,2013-04-17 Pulse coupled neural networks represent a new and exciting advance in image processing research When exposed to grey scale or colour images they produce a series of binary pulse images which allow the content of the image to be assessed much more accurately than from the original In this volume Thomas Lindblad and Jason Kinser provide a much needed introduction to the topic of PCNNs They review the theoretical foundations and then look at a number of image processing applications including segmentation edge extraction texture extraction object identification object isolation motion processing foveation noise suppression and image fusion They also look at the PCNNs ability to process logical arguments and at how to implement it in specialised hardware It will be of particular interest to researchers and practitioners working in image processing especially those involved with medical military or industrial applications It will also be of interest to graduate level students **Image**

Processing and Intelligent Computing Systems Prateek Singhal,Abhishek Verma,Prabhat Kumar Srivastava,Virender Ranga,Ram Kumar,2023-01-17 There is presently a drastic growth in multimedia data During the Covid 19 pandemic we observed that images helped doctors immensely in the rapid detection of Covid 19 infection in patients There are many critical applications in which images play a vital role These applications use raw image data to extract some useful information about the world around us The quick extraction of valuable information from raw images is one challenge that academicians and professionals face in the present day This is where image processing comes into action Image processing s primary purpose is to get an enhanced image or extract some useful information from raw image data Therefore there is a major need for some technique or system that addresses this challenge Intelligent Systems have emerged as a solution to address quick image information extraction In simple words an Intelligent System can be defined as a mathematical model that adapts itself to deal with a problem s dynamicity These systems learn how to act so an image can reach an objective An

Intelligent System helps accomplish various image processing functions like enhancement segmentation reconstruction object detection and morphing The advent of Intelligent Systems in the image processing field has leveraged many critical applications for humankind These critical applications include factory automation biomedical imaging analysis decision econometrics as well as related challenges

**Intelligent Information Processing with Matlab** Xiu Zhang,Xin Zhang,Wei Wang,2024-10-16

**Digital Image Processing and Analysis** Scott E Umbaugh,2017-11-30 Digital image processing and analysis is a field that continues to experience rapid growth with applications in many facets of our lives Areas such as medicine agriculture manufacturing transportation communication systems and space exploration are just a few of the application areas This book takes an engineering approach to image processing and analysis including more examples and images throughout the text than the previous edition It provides more material for illustrating the concepts along with new PowerPoint slides The application development has been expanded and updated and the related chapter provides step by step tutorial examples for this type of development The new edition also includes supplementary exercises as well as MATLAB based exercises to aid both the reader and student in development of their skills

**Digital Image Processing Using MATLAB** Arsath Natheem,2017-12-17 This book will help you learn all about digital image processing Importance and necessity of image processing stems from application areas the first being the Improvement of data for individual interpretation and the second being that the Processing of a spectacle data for an machine perception Digital image processing includes a assortment of applications such as remote sensing image and information storage for transmission in acoustic imaging medical imaging business applications Forensic sciences and industrial automation Images are helpful in tracking of earth resources mapping and forecast of urban populations agricultural crops climate forecasting flooding and fire control Space imaging applications include comprehension and analyzation of objects contained in images obtained from deep space probe missions There are also medical programs such as processing of X Rays Ultrasonic scanning Electron micrographs Magnetic Resonance Imaging Nuclear Magnetic Resonance Imaging etc In addition to the aforementioned applications digital image processing is being used to solve a variety of issues Even unrelated these problems commonly require methods effective at improving information The Image processing Procedures like restoration and Image enhancement are used to procedure images that were degraded or blurred Powerful uses of image processing concepts are observed in defense astronomy biology medical and industrial applications As per Medical Imaging is concerned almost all of the pictures could be utilized in the discovery of tumors or for viewing the patients The current key field of use of digital image processing DIP methods is in solving the issue of machine vision so as to attain superior results

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Qidwai, C.H. Chen, 2009-10-15 Avoiding heavy mathematics and lengthy programming details Digital Image Processing An Algorithmic Approach with MATLAB presents an easy methodology for learning the fundamentals of image processing The book applies the algorithms using MATLAB without bogging down students with syntactical and debugging issues One chapter can typically be completed per week with each chapter divided into three sections The first section presents theoretical topics in a very simple and basic style with generic language and mathematics The second section explains the theoretical concepts using flowcharts to streamline the concepts and to form a foundation for students to code in any programming language The final section supplies MATLAB codes for reproducing the figures presented in the chapter Programming based exercises at the end of each chapter facilitate the learning of underlying concepts through practice This textbook equips undergraduate students in computer engineering and science with an essential understanding of digital image processing It will also help them comprehend more advanced topics and sophisticated mathematical material in later courses A color insert is included in the text while various instructor resources are available on the author's website

[Image Processing and Machine Learning, Volume 2](#) Erik Cuevas, Alma Nayeli Rodríguez, 2024-02-16 Image processing and machine learning are used in conjunction to analyze and understand images Where image processing is used to process images using techniques such as filtering segmentation and feature extraction machine learning algorithms are used to interpret the processed data through classification clustering and object detection This book serves as a textbook for students and instructors of image processing covering the theoretical foundations and practical applications of some of the most prevalent image processing methods and approaches Divided into two volumes this second installment explores the more advanced concepts and techniques in image processing including morphological filters color image processing image matching feature based segmentation utilizing the mean shift algorithm and the application of singular value decomposition for image compression This second volume also incorporates several important machine learning techniques applied to image processing building on the foundational knowledge introduced in Volume 1 Written with instructors and students of image processing in mind this book's intuitive organization also contains appeal for app developers and engineers **Deep Learning and Convolutional Neural Networks for Medical Image Computing** Le Lu, Yefeng Zheng, Gustavo Carneiro, Lin Yang, 2017-07-12 This book presents a detailed review of the state of the art in deep learning approaches for semantic object detection and segmentation in medical image computing and large scale radiology database mining A

particular focus is placed on the application of convolutional neural networks with the theory supported by practical examples Features highlights how the use of deep neural networks can address new questions and protocols as well as improve upon existing challenges in medical image computing discusses the insightful research experience of Dr Ronald M Summers presents a comprehensive review of the latest research and literature describes a range of different methods that make use of deep learning for object or landmark detection tasks in 2D and 3D medical imaging examines a varied selection of techniques for semantic segmentation using deep learning principles in medical imaging introduces a novel approach to interleaved text and image deep mining on a large scale radiology image database

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