

Character Recognition Using Matlab's Neural Network Toolbox

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Abstract

Recognition of Handwritten text has been one of the active and challenging areas of research in the field of image processing and pattern recognition. It has numerous applications which include, reading aid for blind, bank cheques and conversion of any hand written document into structural text form. In this paper we focus on recognition of English alphabet in a given scanned text document with the help of Neural Networks. Using Matlab Neural Network toolbox, we tried to recognize handwritten characters by projecting them on different sized grids. The first step is image acquisition which acquires the scanned image followed by noise filtering, smoothing and normalization of scanned image, rendering image suitable for segmentation where image is decomposed into sub images. Feature Extraction improves recognition rate and misclassification. We use character extraction and edge detection algorithm for training the neural network to classify and recognize the handwritten characters.

Keywords: *Character Recognition, Neural Network, Character Extraction algorithm, Edge Detection algorithm, Image acquisition*

1. Introduction

Handwriting recognition has been one of the most fascinating and challenging research areas in field of image processing and pattern recognition in the recent years [1]. It contributes immensely to the advancement of automation process and improves the interface between man and machine in numerous applications. In general, handwriting recognition is classified into two types as off-line and on-line handwriting recognition methods. The on-line methods have been shown to be superior to their off-line counter parts in recognizing handwritten characters due to the temporal information available with the former. However, in the off-line systems, comparably high recognition accuracy levels [5].

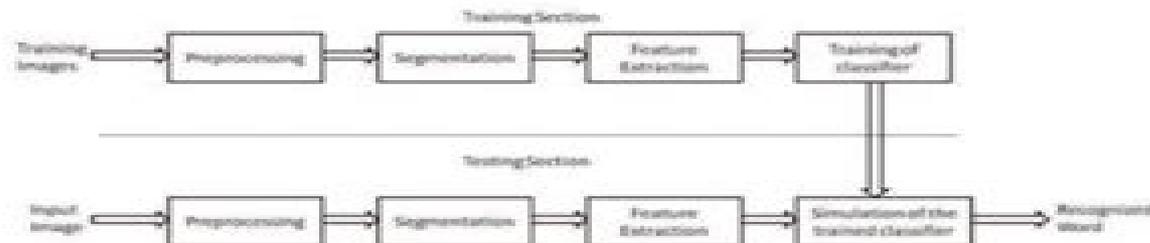


Figure 1. Generic Character Recognition Model

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Hussin A.Rothana



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Table of Contents Character Recognition Using Matlab S Neural Network Toolbox

1. Understanding the eBook Character Recognition Using Matlab S Neural Network Toolbox
 - The Rise of Digital Reading Character Recognition Using Matlab S Neural Network Toolbox
 - Advantages of eBooks Over Traditional Books
2. Identifying Character Recognition Using Matlab S Neural Network Toolbox
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Character Recognition Using Matlab S Neural Network Toolbox
 - User-Friendly Interface
4. Exploring eBook Recommendations from Character Recognition Using Matlab S Neural Network Toolbox
 - Personalized Recommendations
 - Character Recognition Using Matlab S Neural Network Toolbox User Reviews and Ratings
 - Character Recognition Using Matlab S Neural Network Toolbox and Bestseller Lists

5. Accessing Character Recognition Using Matlab S Neural Network Toolbox Free and Paid eBooks
 - Character Recognition Using Matlab S Neural Network Toolbox Public Domain eBooks
 - Character Recognition Using Matlab S Neural Network Toolbox eBook Subscription Services
 - Character Recognition Using Matlab S Neural Network Toolbox Budget-Friendly Options
6. Navigating Character Recognition Using Matlab S Neural Network Toolbox eBook Formats
 - ePub, PDF, MOBI, and More
 - Character Recognition Using Matlab S Neural Network Toolbox Compatibility with Devices
 - Character Recognition Using Matlab S Neural Network Toolbox Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Character Recognition Using Matlab S Neural Network Toolbox
 - Highlighting and Note-Taking Character Recognition Using Matlab S Neural Network Toolbox
 - Interactive Elements Character Recognition Using Matlab S Neural Network Toolbox
8. Staying Engaged with Character Recognition Using Matlab S Neural Network Toolbox
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Character Recognition Using Matlab S Neural Network Toolbox
9. Balancing eBooks and Physical Books Character Recognition Using Matlab S Neural Network Toolbox
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Character Recognition Using Matlab S Neural Network Toolbox
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Character Recognition Using Matlab S Neural Network Toolbox
 - Setting Reading Goals Character Recognition Using Matlab S Neural Network Toolbox
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Character Recognition Using Matlab S Neural Network Toolbox
 - Fact-Checking eBook Content of Character Recognition Using Matlab S Neural Network Toolbox
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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