Understanding

Programming Aspects of Pattern Recognition Using MATLAB





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Chapter 2: Palm Print Image Classification Using K-Means Clustering

2.1 Introduction

Start MATLAB

Design GUI with Axes and Buttons

Add Menu Editor

Write Code to Extract the Palmprint Features

Apply K-Means Clustering Algorithm for Classification

- 2.2 Summary
- 2.3 Exercise

Chapter 3: Butterfly Image Classification Using K-Means Clustering

3.1 Introduction

Start MATLAB

Design GUI with Axes and Buttons

Add Menu Editor

Write Code to Extract the Butterfly Features

Apply K-Means Clustering Algorithm for Classification

- 3.2 Summary
- 3.3 Exercise

Chapter 4: Extraction of Brain Tumour Using MRI

4.1 Introduction

Start MATLAB

Design GUI with Axes and Buttons

bbΔ	Menu	Editor

Write Code to Extract the Brain Tumor Features from MRI

Apply PCA Classifier for Classification

- 4.2 Summary
- 4.3 Exercise

Chapter 5: Feature Extraction of Human Face

5.1 Introduction

Start MATLAB

Design GUI with Axes and Buttons

Add Menu Editor

Write Code to Extract the Human Face

Apply Perceptron Classifier for Classification

- 5.2 Summary
- 5.3 Exercise

Chapter 6: Feature Extraction of Flowers & Classification using K-Means Clustering

6.1 Introduction

Start MATLAB

Design GUI with Axes and Buttons

Add Menu Editor

Write Code to Extract the Flower Image Features

Apply K-Means Clustering Algorithm for Classification

6.2 Summary

6.3 Exercise

Chapter 7: Feature Extraction of Leaf & Classification using PCA

7.1 Introduction

Start MATLAB

Design GUI with Axes and Buttons

Add Menu Editor

Write Code to Extract the Leaf Image Features

Apply PCA Algorithm for Classification

7.2 Summary

7.3 Exercise

Chapter 8: Fingerprint Feature Extraction and Classification Using PCA

8.1 Introduction

Start MATLAB

Design GUI with Axes and Buttons

Add Menu Editor

Write Code to Extract the Fingerprint Features

Apply PCA Algorithm for Classification

- 8.2 Summary
- 8.3 Exercise

Chapter 9: Statistical Feature Extraction of Fundus Image

9.1 Introduction

Start MATLAB

Design GUI with Axes and Buttons

Add Menu Editor

Write Code to Extract the Statistical Features of Fundus Images

Apply PCA Algorithm for Classification

- 9.2 Summary
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