

*Computer Manual
in MATLAB
to accompany*

Pattern Classification

David G. Stork
Elad Yom-Tov

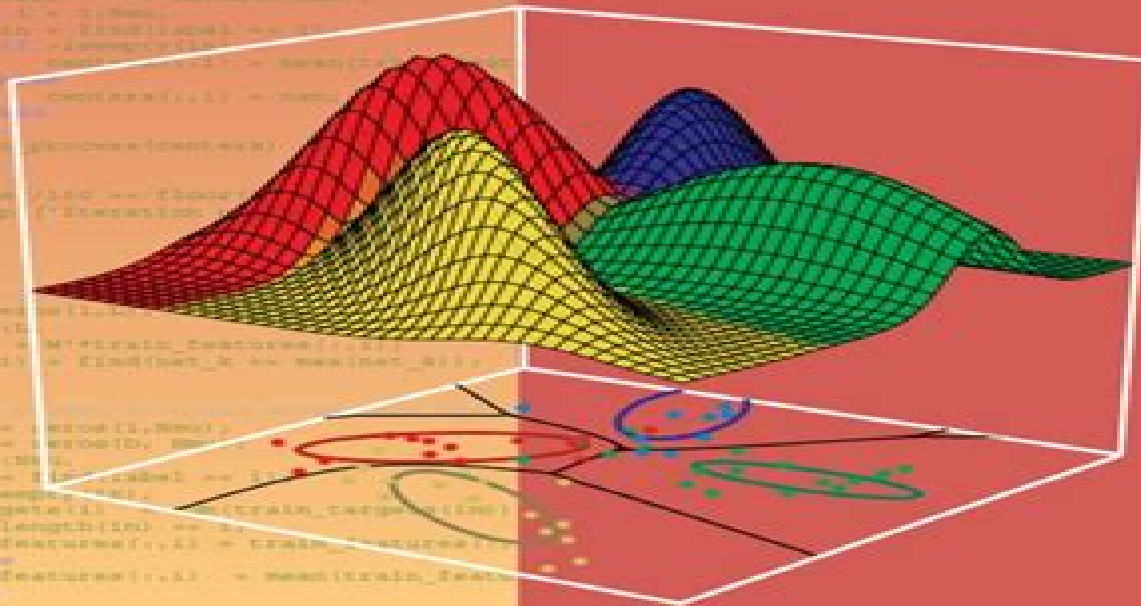
```
% Example 10.1: Randomly generated data
% This example illustrates the use of the MATLAB
% function 'rand' to generate random data.
% The data is generated in a 2D space.
% The data is then used to train a linear classifier.
% The classifier is then used to classify new data.

% Generate random data
N = 100; % Number of data points
X = rand(N, 2); % Generate random data in a 2D space
Y = randi([1 2], N, 1); % Generate random labels (1 or 2)

% Train a linear classifier
[weights, bias] = train(X, Y);

% Classify new data
X_test = rand(100, 2); % Generate random test data
Y_test = randi([1 2], 100, 1); % Generate random test labels
[~, predicted_Y] = classify(X_test, weights, bias);

% Calculate the accuracy of the classifier
accuracy = sum(Y_test == predicted_Y) / length(Y_test);
```



Pattern Classification Manual

IM Harris



Pattern Classification Manual:

Pattern Classification 2nd Edition with Computer Manual 2nd Edition Set Richard O. Duda, 2004-06-04 The first edition published in 1973 has become a classic reference in the field Now with the second edition readers will find information on key new topics such as neural networks and statistical pattern recognition the theory of machine learning and the theory of invariances Also included are worked examples comparisons between different methods extensive graphics expanded exercises and computer project topics An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department *Computer Manual in MATLAB to accompany Pattern Classification* David G. Stork, Elad Yom-Tov, 2004-04-08 Computer Manual to Accompany Pattern Classification and its associated MATLAB software is an excellent companion to Duda Pattern Classification 2nd ed DH S The code contains all algorithms described in Duda as well as supporting algorithms for data generation and visualization The Manual uses the same terminology as the DH S text and contains step by step worked examples including many of the examples and figures in the textbook The Manual is accompanied by software that is available electronically The software contains all algorithms in DH S indexed to the textbook and uses symbols and notation as close as possible to the textbook The code is self annotating so the user can easily navigate understand and modify the code **Pattern Classification: WITH Computer Manual, 2r.e** ,2004 *Computer Manual in Mathematica to Accompany Pattern Classification* David G. Stork, Shashidhar Sathyanarayana, 2016-10-10 Computer Manual MATHEMATICA version to accompany Pattern Classification Third Edition and its associated software contains all the MATHEMATICA code for the dynamic figures in the electronic version of PATTERN CLASSIFICATION 3 e Duda Hart and Stork as well as for core algorithms in pattern classification clustering and feature extraction described in the text The code is cross referenced with the material from the textbook and uses the same terminology and symbols so that the conceptual link from course material to working code is tight **Handbook of Bloodstain Pattern Analysis** Toby L. Wolson, 2024-12-13 The Handbook of Bloodstain Pattern Analysis captures the latest understanding of the science that supports bloodstain pattern analysis BPA and includes the results of numerous research studies using modern technologies not found in previously published books It provides the BPA community with a modern up to date reference and training manual to outline and validate the utility repeatability and reliability of BPA science BPA has recently been presented in the news media as an example of junk science used in a handful of cases involving wrongful convictions However the reality is that the primary issue for BPA in these wrongful convictions is not the science it is the result of substandard training and the lack of experience of BPA analysts prior to beginning casework and testifying in court as experts As such this book is written to serve as an essential study guide for analysts preparing to sit for the International Association for Identification IAI Bloodstain Pattern Analyst Certification exam The contents of the book are guided by the ANSI ASB Standards for a Bloodstain Pattern Analysis Training Program Each chapter has been written by top experts conversant on the relevant BPA

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