



FIGURE 2.5. The functional structure of a general statistical pattern classifier which includes d inputs and c discriminant functions $g_j(\mathbf{x})$. A subsequent step determines which of the discriminant values is the maximum, and categorizes the input pattern accordingly. The arrows show the direction of the flow of information, though frequently the arrows are omitted when the direction of flow is self-evident. From: Richard O. Duda, Peter E. Hart, and David G. Stork, *Pattern Classification*. Copyright © 2001 by John Wiley & Sons, Inc.

Pattern Classification

**Jian-Huang Lai, Cheng-Lin Liu, Xilin
Chen, Jie Zhou, Tieniu Tan, Nanning
Zheng, Hongbin Zha**

Pattern Classification:

Pattern Classification Richard O. Duda, Peter E. Hart, David G. Stork, 2012-11-09 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. [Ensemble Learning: Pattern Classification Using Ensemble Methods \(Second Edition\)](#) Lior

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Researchers from various disciplines such as pattern recognition statistics and machine learning have explored the use of ensemble methodology since the late seventies Thus they are faced with a wide variety of methods given the growing interest in the field This book aims to impose a degree of order upon this diversity by presenting a coherent and unified repository of ensemble methods theories trends challenges and applications The book describes in detail the classical methods as well as the extensions and novel approaches developed recently Along with algorithmic descriptions of each method it also explains the circumstances in which this method is applicable and the consequences and the trade offs incurred by using the method

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Throughout this book major themes are selected from theoretical subjects that are tightly connected with challenging applications

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Pattern Recognition and Computer Vision Jian-Huang Lai, Cheng-Lin Liu, Xilin Chen, Jie Zhou, Tieniu Tan, Nanning Zheng, Hongbin Zha, 2018-11-02 The four volume set LNCS 11256 11257 11258 and 11259 constitutes the refereed proceedings of the First Chinese Conference on Pattern Recognition and Computer Vision PRCV 2018 held in Guangzhou China in November 2018 The 179 revised full papers presented were carefully reviewed and selected from 399 submissions The papers have been organized in the following topical sections Part I Biometrics Computer Vision Application Part II Deep Learning Part III Document Analysis Face Recognition and Analysis Feature Extraction and Selection Machine Learning Part IV Object Detection and Tracking Performance Evaluation and Database Remote Sensing

Fundamentals of Digital Image Processing S. Annadurai, 2007

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A Probabilistic Theory of Pattern Recognition Luc Devroye, Laszlo Györfi, Gabor Lugosi, 2013-11-27 Pattern recognition presents one of the most significant challenges for scientists and engineers and many different approaches have been proposed The aim of this book is to provide a self contained account of probabilistic analysis of these approaches The book includes a discussion of distance measures nonparametric methods based on kernels or nearest neighbors Vapnik Chervonenkis theory epsilon entropy parametric classification error estimation free classifiers and neural networks Wherever possible distribution free properties and inequalities are derived A substantial portion of the results or the analysis is new Over 430 problems and exercises complement the material

Adaptive, Learning, and Pattern Recognition Systems; theory and applications

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