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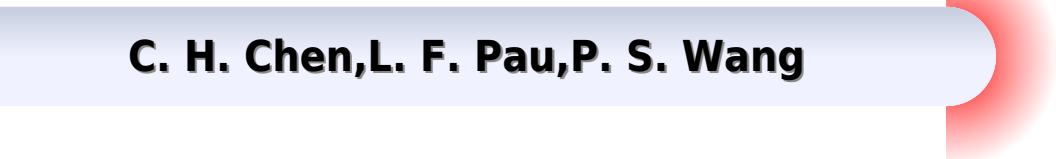
Abstract

Provides a unified, comprehensive and up-to-date treatment of both statistical and descriptive methods for pattern recognition. The topics treated include Bayesian decision theory, supervised and unsupervised learning, nonparametric techniques, discriminant analysis, clustering, preprocessing of pictorial data, spatial filtering, shape description techniques, perspective transformations, projective invariants, linguistic procedures, and artificial intelligence techniques for scene analysis.

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C. H. Chen, L. F. Pau, P. S. Wang



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A Survey of Pattern Classification and Scene Analysis Richard O. Duda, 1971 Pattern recognition is an essential part of artificial intelligence and has been the subject of extensive research The report gives a survey of the literature on pattern recognition The survey is divided into two main parts the first part devoted to statistical pattern recognition and the second part devoted to pictorial pattern recognition With the partial exception of waveform recognition almost all of the work in pattern recognition falls into one or the other of these two categories The bibliography includes more than 500 references Author **Pattern Classification and Scene Analysis** Richard O. Duda, Peter E. Hart, 1973 *Introduction to Pattern Recognition* Menahem Friedman, Abraham Kandel, 1999 This book is an introduction to pattern recognition meant for undergraduate and graduate students in computer science and related fields in science and technology Most of the topics are accompanied by detailed algorithms and real world applications In addition to statistical and structural approaches novel

topics such as fuzzy pattern recognition and pattern recognition via neural networks are also reviewed Each topic is followed by several examples solved in detail The only prerequisites for using this book are a one semester course in discrete mathematics and a knowledge of the basic preliminaries of calculus linear algebra and probability theory *Pattern Recognition and Image Processing in C++* Dietrich Paulus,2012-12-06 Parts of this text were used for several years by students in a one term under graduate course in computer science The students had to prepare projects in small groups 2 4 students 1 This book emphasizes practical experience with image processing It offers a comprehensive study of image processing and image analysis basics of speech processing object oriented programming software design and programming in C The book is divided into four parts In the first part we introduce image processing image analysis programming tools and the basics of C In the second part we describe object oriented programming in general and the possible applications of object oriented concepts in C Several applications of object oriented programming for image processing are discussed as well The new features of C are introduced entirely through the use of examples We cover the proper representation of the data that is a result of pattern analysis as well The third part describes a complete system for image segmentation Some of the material covered refers to the exercises found in the first and second parts this verifies our belief that an image segmentation system of programs can be developed while simultaneously acquainting others to C We combine the data representation described in the second part with the algorithms that use and manipulate them here in the third part

Pattern Recognition Bruce G. Batchelor,2012-12-06 Pattern recognition is a child of modern technology electronics and computers in particular have inspired research and made it possible to develop the subject in a way which would have been impossible otherwise It is a rapidly growing research field which began to flourish in the 1960s and which is beginning to produce commercial devices Significant developments have been made both in the theory and practical engineering of the subject but there is evidence of a schism developing between these two approaches Practical machines have usually been designed on an ad hoc basis with little use being made of advanced theory It is difficult to provide a rigorous mathematical treatment of many problems pertinent to a practical situation This is due in part at least to a conceptual rift between theory and practice The mathematics of optimal systems is well developed whereas pragmatists are more concerned with vaguer ideas of reasonable and sufficient In some situations the quest for optimality can constrain research and retard practical progress This can occur for example if too narrow a view is taken of optimal the accuracy of a system may be optimal whereas its speed cost or physical size may be grossly suboptimal The objective of this book is to present a glimpse of the pragmatic approach to pattern recognition there already exist a number of excellent texts describing theoretical developments Handbook of Pattern Recognition and Computer Vision C. H. Chen,L. F. Pau,P. S. Wang,1993-08 The book provides an up to date and authoritative treatment of pattern recognition and computer vision with chapters written by leaders in the field On the basic methods in pattern recognition and computer vision topics range from statistical pattern

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