1. | | |
    |---|---|
    | Record Nr. | UNINA9910133478703321 |
    | Titolo | Annual report |
    | Pubbl/distr/stampa | Toronto, : Royal Ontario Museum, 1950- |
    | Descrizione fisica | 1 online resource |
    | Disciplina | 069.0871 |
    | Soggetti | Musées - Ontario periodicals. |
    | | Periodicals. |
    | Lingua di pubblicazione | Inglese |
    | Formato | Materiale a stampa |
    | Livello bibliografico | Periodico |

2. | | |
    |---|---|
    | Record Nr. | UNINA9910959371503321 |
    | Autore | Devroye Luc |
    | Titolo | A Probabilistic Theory of Pattern Recognition / / by Luc Devroye, Laszlo Györfi, Gabor Lugosi |
    | Pubbl/distr/stampa | New York, NY : , : Springer New York : , : Imprint : Springer, , 1996 |
    | ISBN | 1-4612-0711-8 |
    | Edizione | [1st ed. 1996.] |
    | Descrizione fisica | 1 online resource (XV, 638 p.) |
    | Collana | Stochastic Modelling and Applied Probability, , 2197-439X ; ; 31 |
    | Disciplina | 519.2 |
    | Soggetti | Probabilities |
    | | Pattern recognition systems |
    | | Probability Theory |
    | | Automated Pattern Recognition |
    | Lingua di pubblicazione | Inglese |
    | Formato | Materiale a stampa |
    | Livello bibliografico | Monografia |
    | Note generali | Bibliographic Level Mode of Issuance: Monograph |
    | Nota di bibliografia | Includes bibliographical references and indexes. |
    | Nota di contenuto | A Probabilistic Theory of Pattern Recognition -- Editor's page -- A Probabilistic Theory of Pattern Recognition -- Copyright -- Preface -- |

Contents -- 1 Introduction -- 2 The Bayes Error -- 3 Inequalities and Alternate Distance Measures -- 4 Linear Discrimination -- 5 Nearest Neighbor Rules -- 6 Consistency -- 7 Slow Rates of Convergence -- 8 Error Estimation -- 9 The Regular Histogram Rule -- 10 Kernel Rules -- 11 Consistency of the k-Nearest Neighbor Rule -- 12 Vapnik - Chervonenkis Theory -- 13 Combinatorial Aspects of Vapnik - Chervonenkis Theory -- 14 Lower Bounds for Empirical Classifier Selection -- 15 The Maximum Likelihood Principle -- 16 Parametric Classification -- 17 Generalized Linear Discrimination -- 18 Complexity Regularization -- 19 Condensed and Edited Nearest Neighbor Rules -- 20 Tree Classifiers -- 21 Data- Dependent Partitioning -- 22 Splitting the Data -- 23 The Resubstitution Estimate -- 24 Deleted Estimates of the Error Probability -- 25 Automatic Kernel Rules -- 26 Automatic Nearest Neighbor Rules -- 27 Hypercubes and Discrete Spaces -- 28 Epsilon Entropy and Totally Bounded Sets -- 29 Uniform Laws of Large Numbers -- 30 Neural Networks -- 31 Other Error Estimates -- 32 Feature Extraction -- Appendix -- Notation -- References -- Author Index -- Subject Index.

| Sommario/riassunto | 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. |