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Titolo	Castelli del Lazio meridionale : contributi di storia, architettura ed archeologia / a cura di Gioacchino Giammaria ; testi di Stefano Coccia, Donatella Fiorani, Marcello Rizzello
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Autore	Shinmura Shuichi
Titolo	New Theory of Discriminant Analysis After R. Fisher : Advanced Research by the Feature Selection Method for Microarray Data / / by Shuichi Shinmura
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Soggetti	Statistics Biometry Social sciences - Statistical methods Statistical Theory and Methods Biostatistics Statistics in Social Sciences, Humanities, Law, Education, Behavioral Sciences, Public Policy
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	1 New Theory of Discriminant Analysis -- 1.1 Introduction -- 1.2 Motivation for our Research -- 1.3 Discriminant Functions -- 1.4 Unresolved Problem (Problem 1) -- 1.5 LSD Discrimination (Problem 2) -- 1.6 Generalized Inverse Matrices (Problem 3) -- 1.7 K-fold Cross-validation (Problem 4) -- 1.8 Matroska Feature Selection Method (Problem 5) -- 1.9 Summary -- References -- 2 Iris Data and Fisher's Assumption -- 2.1 Introduction -- 2.2 Iris Data -- 2.3 Comparison of Seven LDFs -- 2.4 100-folf Cross-validation for Small Sample Method (Method 1) -- 2.5 Summary -- References -- 3 The Cephalo-Pelvic Disproportion (CPD) Data with Collinearity -- 3.1 Introduction -- 3.2 CPD Data -- 3.3 100-folf Cross-validation -- 3.4 Trial to Remove Collinearity -- 3.5 Summary -- References -- 4 Student Data and Problem 1 -- 4.1 Introduction -- 4.2 Student Data -- 4.3 100-folf Cross-validation for Student Data -- 4.4 Student Linearly Separable Data -- 4.5 Summary -- References -- 5 The Pass/Fail Determination using Exam Scores -A Trivial Linear Discriminant Function -- 5.1

Introduction -- 5.2 Pass/Fail Determination by Exam Scores Data in 2012 -- 5.3 Pass/Fail Determination by Exam Scores (50% Level in 2012) -- 5.4 Pass/Fail Determination by Exam Scores (90% Level in 2012) -- 5.5 Pass/Fail Determination by Exam Scores (10% Level in 2012) -- 5.6 Summary -- 6 Best Model for the Swiss Banknote Data -- Explanation 1 of Matroska Feature -selection Method (Method 2) -. References -- 6 Best Model for Swiss Banknote Data -- 6.1 Introduction -- 6.2 Swiss Banknote Data -- 6.3 100-fold Cross-validation for Small Sample Method -- 6.4 Explanation 1 for Swiss Banknote Data -- 6.5 Summary -- References -- 7 Japanese Automobile Data -- Explanation 2 of Matroska Feature Selection Method (Method 2) -- 7.1 Introduction -- 7.2 Japanese Automobile Data -- 7.3 100-fold Cross-validation (Method 1) -- 7.4 Matroska Feature Selection Method (Method 2) -- 7.5 Summary -- References -- 8 Matroska Feature Selection Method for Microarray Data (Method 2) -- 8.1 Introduction.-8.2 Matroska Feature Selection Method (Method2) -- 8.3 Results of the Golub et al. Dataset -- 8.4 How to Analyze the First BGS -- 8.5 Statistical Analysis of SM1 -- 8.6 Summary -- References -- 9 LINGO Program 1 of Method 1 -- 9.1 Introduction -- 9.2 Natural (Mathematical) Notation by LINGO -- 9.3 Iris Data in Excel -- 9.4 Six LDFs by LINGO -- 9.5 Discrimination of Iris Data by LINGO -- 9.6 How to Generate Re-sampling Samples and Prepare Data in Excel File -- 9.7 Set Model by LINGO -- Index.

Sommario/riassunto

This is the first book to compare eight LDFs by different types of datasets, such as Fisher's iris data, medical data with collinearities, Swiss banknote data that is a linearly separable data (LSD), student pass/fail determination using student attributes, 18 pass/fail determinations using exam scores, Japanese automobile data, and six microarray datasets (the datasets) that are LSD. We developed the 100-fold cross-validation for the small sample method (Method 1) instead of the LOO method. We proposed a simple model selection procedure to choose the best model having minimum M2 and Revised IP-OLDF based on MNM criterion was found to be better than other M2s in the above datasets. We compared two statistical LDFs and six MP-based LDFs. Those were Fisher's LDF, logistic regression, three SVMs, Revised IP-OLDF, and another two OLDFs. Only a hard-margin SVM (H-SVM) and Revised IP-OLDF could discriminate LSD theoretically (Problem 2). We solved the defect of the generalized inverse matrices (Problem 3). For more than 10 years, many researchers have struggled to analyze the microarray dataset that is LSD (Problem 5). If we call the linearly separable model "Matroska," the dataset consists of numerous smaller Matroskas in it. We develop the Matroska feature selection method (Method 2). It finds the surprising structure of the dataset that is the disjoint union of several small Matroskas. Our theory and methods reveal new facts of gene analysis.