# Contents

**Ordering Curves by Data Depth** ..... 1
Claudio Agostinelli and Mario Romanazzi

**Can the Students' Career be Helpful in Predicting an Increase in Universities Income?** ..... 9
Massimo Attanasio, Giovanni Boscaino, Vincenza Capursi, and Antonella Plaia

**Model-Based Classification Via Patterned Covariance Analysis** ..... 17
Luca Bagnato

**Data Stream Summarization by Histograms Clustering** ..... 27
Antonio Balzanella, Lidia Rivoli, and Rosanna Verde

**Web Panel Representativeness** ..... 37
Annamaria Bianchi and Silvia Biffignandi

**Nonparametric Multivariate Inference Via Permutation Tests for CUB Models** ..... 45
Stefano Bonnini, Luigi Salmaso, and Francesca Solmi

**Asymmetric Multidimensional Scaling Models for Seriation** ..... 55
Giuseppe Bove

**An Approach to Ranking the Hedge Fund Industry** ..... 63
Riccardo Bramante

**Correction of Incoherences in Statistical Matching** ..... 73
Andrea Capotorti and Barbara Vantaggi

**The Analysis of Network Additionality in the Context of Territorial Innovation Policy: The Case of Italian Technological Districts** ..... 81
Carlo Capuano, Domenico De Stefano, Alfredo Del Monte, Maria Rosaria D'Esposito, and Maria Prosperina Vitale



Bibliografische Informationen
http://d-nb.info/104124892X

digitalisiert durch DEUTSCHE NATIONAL BIBLIOTHEK

**Clustering and Registration of Multidimensional Functional Data** ..... 89
M. Chiodi, G. Adelfio, A. D'Alessandro, and D. Luzio

**Classifying Tourism Destinations: An Application of Network Analysis** ..... 99
Rosario D'Agata and Venera Tomaselli

**On Two Classes of Weighted Rank Correlation Measures Deriving from the Spearman's ρ** ..... 107
Livia Dancelli, Marica Manisera, and Marika Vezzoli

**Beanplot Data Analysis in a Temporal Framework** ..... 115
Carlo Drago, Carlo Lauro, and Germana Scepi

**Supervised Classification of Facial Expressions** ..... 123
S. Fontanella, C. Fusilli, and L. Ippoliti

**Grouping Around Different Dimensional Affine Subspaces** ..... 131
L.A. García-Escudero, A. Gordaliza, C. Matrán, and A. Mayo-Iscar

**Hospital Clustering in the Treatment of Acute Myocardial Infarction Patients Via a Bayesian Semiparametric Approach** ..... 141
Alessandra Guglielmi, Francesca Ieva, Anna Maria Paganoni, and Fabrizio Ruggeri

**A New Fuzzy Method to Classify Professional Profiles from Job Announcements** ..... 151
Domenica Fioredistella Iezzi, Mario Mastrangelo, and Scipione Sarlo

**A Metric Based Approach for the Least Square Regression of Multivariate Modal Symbolic Data** ..... 161
Antonio Irpino and Rosanna Verde

**A Gaussian–Von Mises Hidden Markov Model for Clustering Multivariate Linear-Circular Data** ..... 171
Francesco Lagona and Marco Picone

**A Comparison of Objective Bayes Factors for Variable Selection in Linear Regression Models** ..... 181
Luca La Rocca

**Evolutionary Customer Evaluation: A Dynamic Approach to a Banking Case** ..... 191
Caterina Liberati and Paolo Mariani

**Measuring the Success Factors of a Website: Statistical Methods and an Application to a "Web District"** ..... 201
Eleonora Lorenzini and Paola Cerchiello

**Component Analysis for Structural Equation Models with Concomitant Indicators** ..... 209
Pietro Giorgio Lovaglio and Giorgio Vittadini

**Assessing Stability in NonLinear PCA with Hierarchical Data** ..... 217
Marica Manisera

**Using the Variation Coefficient for Adaptive Discrete Beta Kernel Graduation** ..... 225
Angelo Mazza and Antonio Punzo

**On Clustering and Classification Via Mixtures of Multivariate t-Distributions** ..... 233
Paul D. McNicholas

**Simulation Experiments for Similarity Indexes Between Two Hierarchical Clusterings** ..... 241
Isabella Morlini

**Performance Measurement of Italian Provinces in the Presence of Environmental Goals** ..... 251
Eugenia Nissi and Agnese Rapposelli

**On the Simultaneous Analysis of Clinical and Omics Data: A Comparison of Globalboosttest and Pre-validation Techniques** ..... 259
Margret-Ruth Oelker and Anne-Laure Boulesteix

**External Analysis of Asymmetric Multidimensional Scaling Based on Singular Value Decomposition** ..... 269
Akinori Okada and Hiroyuki Tsurumi

**The Credit Accumulation Process to Assess the Performances of Degree Programs: An Adjusted Indicator Based on the Result of Entrance Tests** ..... 279
Mariano Porcu and Isabella Sulis

**The Combined Median Rank-Based Gini Index for Customer Satisfaction Analysis** ..... 289
Emanuela Raffinetti

**A Two-Phase Clustering Based Strategy for Outliers Detection in Georeferenced Curves** ..... 297
Elvira Romano and Antonio Balzanella

**High-Dimensional Bayesian Classifiers Using Non-Local Priors** ..... 305
David Rossell, Donatello Telesca, and Valen E. Johnson

**A Two Layers Incremental Discretization Based on Order Statistics** ..... 315
Christophe Salperwyck and Vincent Lemaire

**Interpreting Error Measurement: A Case Study Based on Rasch Tree Approach** ..... 325
Annalina Sarra, Lara Fontanella, Tonio Di Battista, and Riccardo Di Nisio

**Importance Sampling: A Variance Reduction Method for Credit Risk Models** ..... 333
Gabriella Schoier and Federico Marsich

**A MCMC Approach for Learning the Structure of Gaussian Acyclic Directed Mixed Graphs** ..... 343
Ricardo Silva

**Symbolic Cluster Representations for SVM in Credit Client Classification Tasks** ..... 353
Ralf Stecking and Klaus B. Schebesch

**A Further Proposal to Perform Multiple Imputation on a Bunch of Polytomous Items Based on Latent Class Analysis** ..... 361
Isabella Sulis

**A New Distance Function for Prototype Based Clustering Algorithms in High Dimensional Spaces** ..... 371
Roland Winkler, Frank Klawonn, and Rudolf Kruse

**A Simplified Latent Variable Structural Equation Model with Observable Variables Assessed on Ordinal Scales** ..... 379
Angelo Zanella, Giuseppe Boari, Andrea Bonanomi, and Gabriele Cantaluppi

**Optimal Decision Rules for Constrained Record Linkage: An Evolutionary Approach** ..... 389
Diego Zardetto and Monica Scannapieco

**On Matters of Invariance in Latent Variable Models: Reflections on the Concept, and its Relations in Classical and Item Response Theory** ..... 399
Bruno D. Zumbo

**Index** ..... 409