



Data Analysis and Applications 1: Clustering and Regression, Modeling-estimating, Forecasting and Data Mining, Volume 2

Editor(s): Christos H. Skiadas, James R. Bozeman

First published: 6 March 2019

Print ISBN: 9781786303820 | Online ISBN: 9781119597568 | DOI: 10.1002/9781119597568

© ISTE Ltd 2019

About this book

This series of books collects a diverse array of work that provides the reader with theoretical and applied information on data analysis methods, models, and techniques, along with appropriate applications.

Volume 1 begins with an introductory chapter by Gilbert Saporta, a leading expert in the f ... [Show all](#) ▾

Table of Contents

☰ GO TO PART

🔒 Free Access

Front Matter (Pages: i-xxix)

[Summary](#) | [PDF](#) | [Request permissions](#)

PART 1 : Clustering and Regression

CHAPTER 1

Cluster Validation by Measurement of Clustering Characteristics Relevant to the User (Pages: 1-24)

Christian Hennig

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

CHAPTER 2

Histogram-Based Clustering of Sensor Network Data (Pages: 25-38)

Antonio Balzanella , Rosanna Verde

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

CHAPTER 3

The Flexible Beta Regression Model (Pages: 39-52)

Sonia Migliorati , Agnese M. Di Brisco , Andrea Ongaro

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

CHAPTER 4

S-weighted Instrumental Variables (Pages: 53-71)

Jan Ámos Víšek

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

PART 2 : Models and Modeling

CHAPTER 5

Grouping Property and Decomposition of Explained Variance in Linear Regression (Pages: 73-89)

Henri Wallard

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

CHAPTER 6

On GARCH Models with Temporary Structural Changes (Pages: 91-103)

Norio Watanabe , Fumiaki Okihara

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

CHAPTER 7

[A Note on the Linear Approximation of TAR Models \(Pages: 105-116\)](#)

Francesco Giordano , Marcella Niglio , Cosimo Damiano Vitale

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

CHAPTER 8

[An Approximation of Social Well-Being Evaluation Using Structural Equation Modeling \(Pages: 117-124\)](#)

Leonel Santos-Barrios , Monica Ruiz-Torres , William Gómezdemetrio , Ernesto Sánchez-Vera , Ana Lorga Da Silva , Francisco Martínez-Castañeda

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

CHAPTER 9

[An SEM Approach to Modeling Housing Values \(Pages: 125-135\)](#)

Jim Freeman , Xin Zhao

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

CHAPTER 10

[Evaluation of Stopping Criteria for Ranks in Solving Linear Systems \(Pages: 137-152\)](#)

Benard Abola , Pitos Biganda , Christopher Engström , Sergei Silvestrov

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

CHAPTER 11

[Estimation of a Two-Variable Second-Degree Polynomial via Sampling \(Pages: 153-163\)](#)

Ioanna Papatsouma , Nikolaos Farmakis , Eleni Ketzaki

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

PART 3 : Estimators, Forecasting and Data Mining

CHAPTER 12

Displaying Empirical Distributions of Conditional Quantile Estimates: An Application of Symbolic Data Analysis to the Cost Allocation Problem in Agriculture (Pages: 165-179)

Dominique Desbois

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

CHAPTER 13

Frost Prediction in Apple Orchards Based upon Time Series Models (Pages: 181-194)

Monika A. Tomkowicz , Armin O. Schmitt

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

CHAPTER 14

Efficiency Evaluation of Multiple-Choice Questions and Exams (Pages: 195-204)

Evgeny Gershikov , Samuel Kosolapov

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

CHAPTER 15

Methods of Modeling and Estimation in Mortality (Pages: 205-224)

Christos H. Skiadas , Konstantinos N. Zafeiris

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

CHAPTER 16

An Application of Data Mining Methods to the Analysis of Bank Customer Profitability and Buying Behavior (Pages: 225-240)

Pedro Godinho , Joana Dias , Pedro Torres

[Summary](#) | [PDF](#) | [References](#) | [Request permissions](#)

 [Free Access](#)

List of Authors (Pages: 241-243)

[PDF](#) | [Request permissions](#)

 [Free Access](#)

Index (Pages: 245-246)

PDF | [Request permissions](#)

 [Free Access](#)

Other titles from iSTE in Innovation, Entrepreneurship and Management (Pages: G1-G9)

First Page | [PDF](#) | [Request permissions](#)

About Wiley Online Library

[Privacy Policy](#)

[Terms of Use](#)

[Cookies](#)

[Accessibility](#)

[Help & Support](#)

[Contact Us](#)

[Opportunities](#)

[Subscription Agents](#)

[Advertisers & Corporate Partners](#)

[Connect with Wiley](#)

[The Wiley Network](#)

[Wiley Press Room](#)

Copyright © 1999-2019 John Wiley & Sons, Inc. All rights reserved