Book Reviews \ Reseñas

DEFORESTATION: CONSERVATION POLICIES, ECONOMIC IMPLICATIONS AND ENVIRONMENTAL IMPACT
Carlos Narciso Bouza Herrera (Universidad de La Habana, Cuba), Editor

Nova Science Publishers, Inc   ISBN: 978-1-62948-241-5 • e-book ISBN: 978-1-62948-242-2

This book presents and analyzes some of the most challenging aspects in maintaining forest health. Deforestation is a very important issue in the evolution of the environment. Forests are disappearing and the causes are well-documented. The authors are recognized experts in their fields and they present the results of studies developed in Africa, Latin America and Asia. The effects of using household fuelwood consumption, including those of resettlements and refugees, as well as the need for direct investments in the forest sector are studied. Some studies on the trends and drivers of deforestation, plant coverage, forest regeneration and tree trunk diameter estimations were developed using quantitative methods. In the various chapters of the book, the authors present studies wherein the effect of the actions of man on both deforestation and in reforestation politics is considered. It is divided into two sections; the first one deals with the analysis of causes and the effects of deforestation; the second section is mainly related to a large variety of quantitative studies of deforestation. The contents of the contributions of this section are concerned with quantifying different deforestation issues. Each chapter elaborates using concrete studies, insights, models and methods; they provide results for real problems. It is remarkable that they also provide methodologies which can be used in similar research.

The Contents are clustered into two sec ions. A list of chapters is provided below:

SECTION 1. Deforestation: Analysis of Causes and Effects
Chapter 1. Globalization and Deforestation: An Examination of the Environmental
Effects of Direct Investment in the Forest Sector in Cameroon
(Richard S. Mbatu, Department of Environmental Science, Policy and Geography,
University of South Florida St. Petersburg, St. Petersburg, Florida, USA)
Chapter 2. The Environmental Impacts of Resettlements and Refugees on the Forest
Resources of Southwestern Ethiopia
(Mekuria Argaw and Tamrat Kassa, Addis Ababa University, Center for
Environmental Science, Addis Ababa and others)
SECTION 2. Quantitative Studies of Deforestation and Related Themes
Chapter 3. The Trends and Drivers of Deforestation: A Cross-Country Seemingly
Unrelated Regression Analysis for the REDD+ Policies
(Richard J. Culas, School of Agricultural and Wine Sciences, Charles Sturt
University, Australia)
Chapter 4. Study of the Coverage of Plants and the Evaluation of Deforestation
(Sira Allende, Carlos Bouza and Amita D. Chakraborty, Universidad de La Habana,
Cuba and others)
Chapter 5. Mathematical Modelling of Malaria Using Differential Equations
(Nita H. Shah and Jyoti Gupta, Department of Mathematics, Gujarat University,
Ahmedabad, Gujarat, India)
Chapter 6. A Meta-Analysis Study of Deforestation due to Grazing
(Carlos Bouza and Jose F. Garcia, Universidad de La Habana, Cuba and others)
Chapter 7. A Dynamic Landscape of Forest Regeneration in a Deforesting Forest
Frontier
(Sean Sloan, Department of Resource Management and Geography, The University

of Melbourne, Melbourne, Victoria, Australia and others)
Chapter 8. Tree Trunk Diameter Estimation in Rain Forest Ecology: Analysis and
Optimal Control
(R. Dorville, A. Omrane and E. Robo-Petit, Laboratoire CEREGMIA, IUFM de
Guyane, Cayenne, France, and others)

<div align="right">The editor</div>

DECISION SUPPORT SYSTEMS FOR BUSINESS INTELLIGENCE, 2ND Edition
Vicki L. Sauter (2011)
Wiley   ISBN: 978-0-470-43374-4
XIX+453

Nowadays decision support systems (DSS) are commonly used for understanding the information
provided, when it is needed and to use decision rules for adequate (valuable) for making business
decisions. DSS is based on sound theory coming from different fields as, statistics and optimization, and
technology. This edition extends some "recipes" for understanding theory immanent to DSS design and
the needed training for constructing adequate DSS`s. This edition includes the new advances both in
theory and computer facilities.
The contents of this Second Edition presents remarkable issues as it expands the coverage of data mining
(new examples are discussed); detailed discussions of business intelligence and transnational
corporations are included; the increases in informatics that allow a significant growth of user interfaces
and models and give clues to the use of existing data warehousing, data adjustment, and data scrubbing.
The explanations and implications of DSS is discussed pointing out the differences across cultures and the
challenges associated with transnational systems
I highly recommend this book for courses on information systems, decision support systems, and data
mining. Professionals involved with research in business, statistics, engineering, and computer
technology will obtain in it a good source for aiding them in their work.

<div align="right">J. M. Sautto
Universidad Autónoma de Guerrero</div>

MODERN ANALYSIS OF CUSTOMER SURVEYS: WITH APPLICATIONS USING R
Ron Kenett and Silvia Salini (2012)

Wiley   ISBN: 978-0-470-97128-4
XXXIII+524

Commonly market research deals with obtaining information form the customers for evaluating different
issues as user satisfaction from a product or a service. The usual procedures use sampling for obtaining
the information. Commonly the customer surveys conducted are conducted without considering modeling
the generalizations (inferences?) statistically. Only descriptive statistics and basic graphical displays are
used for supporting the decisions. The authors of the book introduce how to improve these analysis using
more sophisticated statistical methods for obtaining knowledge on the relations of the variables and items.
Then are presented classical techniques as well as modern and non standard statistical methods.
The book is divided into 2 parts and an appendix. Part I, Basic Aspects of Customer Satisfaction, has 9
chapters. Part II, Modern Techniques in Customer Satisfaction Survey Data Analysis, has 11 chapters.
The Appendix (An introduction to R) has 13 appendixes.
 The discussion is based on the use of R algorithms concerned with a website containing datasets where
basic R scripts are given.
The book will be useful for those involved with customer survey studies.

<div align="right">M. Ojeda
Universidad Veracruzana</div>

SIMPLICIAL GLOBAL OPTIMIZATION
Remigijus Paulavičius and Julius Žilinskas (2013)

SpringerBriefs in Optimization   ISBN: 978-1-4614-9092-0 and 978-1-4614-9093-7
VII+205

<div align="center">89</div>

The book is intended for advanced researchers and students dealing with the use of Simplicial Global optimization . It has 4 chapters. They are: Simplicial Partitions in Global Optimization, Lipschitz Optimization with Different Bounds over Simplices, Simplicial Lipschitz Optimization Without Lipschitz Constant, Applications of Global Optimization Benefiting from Simplicial Partitions
A large and actual list of references is given.

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I. V. Puzynin
Smith and King College

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TWO-WAY ANALYSIS OF VARIANCE: STATISTICAL TESTS AND GRAPHICS USING R
Thomas W. MacFarland (2012):
Springer   ISBN: 978-1-4614-2133-7 (Print) 978-1-4614-2134-4 (Online)

The book contents 4 chapters: Learn R with Sample Lessons in Education and the Social Sciences, Health, and the Biological Sciences , Two-Way Analysis of Variance (ANOVA) Sample 1: Comparison of Scores on a Final Examination by Teaching Method and by Status as a Community College Graduate , Two-Way Analysis of Variance (ANOVA) Sample 2: Comparison of Systolic Blood Pressure Readings by Self-Declared Smoking Habits and by Self-Declared Drinking Habits , Two-Way Analysis of Variance (ANOVA).
Sample 3: Comparison of Larvae Counts by AgChem Formulation and by AgChem Application Time-of-Day.
The readers must be at home with the usual design of experiments procedures and methods. The book gives clues for doing the design and statistical analysis of designs that lead to two way analysis of variance tables. Real life data are used for illustrating how to deal with R for performing statistical testing and for producing illustrating graph.

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C.N. Bouza
Universidad de La Habana

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LINEAR-QUADRATIC CONTROLS IN RISK-AVERSE DECISION MAKING. PERFORMANCE-MEASURE STATISTICS AND CONTROL DECISION OPTIMIZATION
Khanh D. Pham (2013)

Springer Briefs in Optimization   ISBN: 978-1-4614-5078-8 and 978-1-4614-5079-5
X+150………………

This book deals with diverse aspects of Risk-Averse problematic connected with the Control of Linear-Quadratic Tracking Problems, Tracking Problems, Model-Following System as well as the Performance Risk Management in Servo Systems, Incomplete Feedback Design in Model-Following Systems. Reliable Control for Stochastic Systems with Low Sensitivity . Stochastic systems are considered and the Output-Feedback Control under with Low Sensitivity is studied complete the presentation.
The book will be of interest for engineers, mathematicians and other specialists involved in controlling complex systems.

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S. Allende
Universidad de La Habana

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ROBUST DATA MINING
Petros Xanthopoulos, Panos M. Pardalos, Theodore B. Trafalis (2013)
Springer Briefs in Optimization   ISBN: 978-1-4419-9877-4 (Print) 978-1-4419-9878-1 (Online)

The authors are well known in this field. A large introduction to the book contents is given in a chapter and the reader is provided with a motivating reading.
They discuss the main aspects of Least Squares Problems , Principal Component Analysis , Linear Discriminant Analysis and Support Vector Machines. These chapters are developed with the aims of producing a text, where these statistical tools are considered in terms of their usefulness for Data Mining. The Optimization side is considered. The process of Data Mining and Knowledge Discovery is discussed. The book is of interest for people dealing with Software Engineering, Computational Programming, Operating Systems etc.

I highly recommend it to practitioners, because of the friendly presentation of the tools; for statistics teachers for providing a good source for illustrating how statistics works in data mining.
The book is particularly important for students of Informatics, Electronics, and Telecommunications etc.

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