Book-Reviews / Reseñas

DECISION MAKING UNDER DEEP UNCERTAINTY: FROM THEORY TO PRACTICE 1ST ed. 2019 EDITION KINDLE EDITION

The book is divided into four parts.
Part I is concerned with Robust Decision Making, Dynamic Adaptive Planning, Dynamic Adaptive Policy Pathways, Info-Gap Decision Theory, and Engineering Options Analysis. The theory as well as methodological aspects are presented including modern methodologies
Part II is devoted to the discussion of the practical applications of the approaches presented in Part I.
Part III deals with real-world problem-solving using the methods and tools presented in the previous parts.
In Part IV are discussed conclusions from the analysis derived from the studies and   give recommendations for further work.
The book provides the needed contents for a good graduate course in decision making in the presence of the so called "deep uncertainty". It presents both traditional theory and tools and for practical decision making .
Real life examples are presented for illustrating how to develop effectively decision-making in the presence of uncertainty.
The book is an open source due to the courtesy of the Radboud University, the RAND Corporation, Delft University of Technology, and Deltares.

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APPLIED MULTIPLE IMPUTATION: ADVANTAGES, PITFALLS, NEW DEVELOPMENTS AND APPLICATIONS IN R (STATISTICS FOR SOCIAL AND BEHAVIORAL SCIENCES)

This book is good source for obtaining up-to-date information on the present developments in the field. Illustrating discussions on recent multiple imputation techniques considering the involved violations of the distributional assumptions of the classical multiple imputation methods.

I recommend this book for those involved in dealing with missing data covering the theoretical aspects. It provides the most commonly used techniques including their implementation in R, the characteristics of the techniques and concepts, which is one of the failures in the work of practitioners. Tutorials for the used R software packages are provided as well as codes and data sets.

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INTRODUCTION TO LINEAR REGRESSION ANALYSIS, BOOK + SOLUTIONS MANUAL SET (6th Edition)

 Douglas C. Montgomery (2022)

Wiley   XXI+ 944
ISBN-10 : 111957871X   ISBN-13 : 978-1119578710

This book embodies principles and applications of advanced on the fundamentals of regression analysis. It is updated with new results in the theme. The book is accompanied by the Solutions Manual. It is a continuation of superb previous book and presents conventional and advancements in linear regression, presenting the needed theory and illustrating with applications. It again allows the implementation of courses providing the basic principles of regression model-building techniques. This would be a suitable book for advanced undergraduate and graduate teaching or as a supplemental text for professionals dealing with the use of linear regression.

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STATISTICAL REGRESSION MODELING WITH R: LONGITUDINAL AND MULTI-LEVEL MODELING

 Ding-Geng (Din) Chen, Jenny K. Chen (2021)

Springer; (Emerging Topics in Statistics and Biostatistics)   VIII+ 245
ISBN-10 : 3030675823   ISBN-13 : 978-3030675820

The book explains in detail and demonstrates the most commonly issue of regression methods. At first the usual normal based linear and nonlinear regression are presented. The issues on Binomial logistic regression Poisson and negative-binomial regression are presented afterwards. More complicated aspects of regression are presented: longitudinal and multi-level data structures. The teacher will have a good source for discussing how to move from classical regression to advanced regression. It is remarkable how it considers the challenges posed to the development of statistics by data science. The authors provides data sets and specialized programs: the R applications *nlme* and *lme4* for implementations of linear, nonlinear, longitudinal and multi-level regression.
 I recommend it for graduate courses on applied regression and for professionals in the fields of data science, statistical analytics, public health as well as statistical theoreticians .

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