

RESEÑAS / BOOK REVIEWS

R FOR SAS AND SPSS USERS

Muenchen, Robert A. (2009)
Springer Series: Statistics and Computing
XVII+470

USD74.95
ISBN: 978-0-387-09417-5

This is a valuable book for every body involved with the use of SAS but also SPSS. As R codes are free it is growing in importance. R may be used for solving the traditional models supported by SAS and SPSS. It brings compressions among the respective functions. I recommend it for going into R if you are not a common user. If you are, it will give an effective source for the apprenticing.

More than 30 programs are provided and the evaluation of them is performed. The software is clustered into 3 packages. The index should guide identifying the R-equivalent to the SAS and SPSS commands and procedures. The reader will be able to do statistical analysis using R. The book will be very comprehensible to the practitioners

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INTRODUCTION TO NONPARAMETRIC ESTIMATION

Alexandre B. Tsybakov (2009).
Springer Series in Statistics
XII,+214

USD79.95
ISBN: 978-0-387-79051-0

If you are involved in preparing a course in Methods of nonparametric estimation you will have a good aid in the oeuvre. It gives an introduction to the theory of nonparametric estimation where optimal estimators; connected with minimax optimality, adaptivity and the oracle approach are the kernel of the theory, The main ideas are introduced and is possible to follow the exposition for a first approach to the theme. It is divided into three chapters. The first chapter deals with nonparametric regression and density estimators. The second chapter 2 presents the basic results on minimax lower bounds. The last chapter 3 is more advanced and discusses Pinsker's theorem, oracle inequalities, Stein shrinkage, and sharp minimax adaptivity. It is recommended for researchers involved in the theme and graduate students

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CLUSTER ANALYSIS FOR DATA MINING AND SYSTEM IDENTIFICATION

Abonyi, J. and Feil, B. (2006)
BIRKHAUSER VERLAG.:
X+355

€102,96
ISBN: 978-3-7643-7987-2

The authors stress how clustering is commonly used in statistical data analysis, Among the areas of its use are machine learning, data mining, pattern recognition, image analysis and bio informatics. The book not only illustrates how fuzzy clustering is playing an increasing role in not only for partitioning, but also in Clustering for fuzzy model identification. - Fuzzy clustering for system identification. - Fuzzy model based classifiers, Segmentation of

multivariate time-series, visualization, and regression, classification and time-series analysis. This discussion justifies that the use of fuzzy cluster analysis provides a competitive approach for developing data mining and system identification problematics arising in the applications.

Nikolai V. Vulshikov
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STATISTICAL PROPERTIES OF DETERMINISTIC SYSTEMS

Jiu Ding and Aihui Zhou (2009)

Springer Series: Tsinghua University Texts

€99,95 XV+270

ISBN: 978-3-540-85366-4

This book should be considered as a text for graduate students of Applied mathematic, Computational mathematics; Physics and Engineering. It presents the basics on the theory and computational methods for characterizing statistical properties of deterministic discrete dynamical systems mainly. A brief introduction is given in the first chapter and the second one presents the needed procedures of Measure Theory. The rest of the book discusses Ergodic Theory, the Frobenius-Perron Operators, Absolutely Continuous Invariant Measures (Existence and Computation), the Convergence Rate Analysis, Entropy and the applications of invariant measures.

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FUZZY PREFERENCE ORDERING OF INTERVAL NUMBERS IN DECISION PROBLEMS

Atanu Sengupta, and Tapan Kumar Pal, (2009)

Springer Series: Studies in Fuzziness and Soft Computing , Vol. 238

99,95 €

XII+ 166

The book should be welcome by mathematicians, engineers and other scientists involved with the nowadays problems concerned with Applications of Artificial Intelligence. It provides a presentation of the problems of analysis and design appearing in many systems, in practice because the coefficients of the problems are imprecise and (or) we are in an uncertain environment, When the nature of the impreciseness is not probabilistic is needed to have a representation of the behavior of the experts. The book discusses issues on fuzzy set approaches for defining preference ordering schemes, when the data are intervals. It is of interest for practical decision making in any area

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INTRODUCTION TO MACHINE LEARNING AND BIOINFORMATICS

Mitra, S., S. Datta., T. Perkins, and G. Michailidis, (2008)

G. Chapman & Hall/CRC

£39.99

XVI+366

ISBN 9781584886822

I assumed that the main motivation of this book is to provide a guide to new developments in Bio informatics, as an interdisciplinary discipline. It seems that the main objective is interfacing bio informatics and machine learning. Mutual influence of the different component fields, as well as comparisons with other oeuvres, is one the salient features of the book. It highlights the features of them (strengths, limitations, guidelines of their use). The teacher will have in this book a basic material for a course using the first five chapters, think in Phd-students in bio informatics. Though it presents some recent results in the field, you expect to have an exposition of more recent developments as embedded learning, semi supervised learning, machine learning for the human genome project, single nucleotide polymorphism study, for example. Hence, look at it as 'a good for teaching' book, not of use for front line researchers.

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