

Computer Science and Data Analysis Series

Bayesian Artificial Intelligence

SECOND EDITION

**Kevin B. Korb
Ann E. Nicholson**



CRC Press
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Martin Theus, Simon Urbanek



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Bayesian Artificial Intelligence Kevin B. Korb, Ann E. Nicholson, 2010-12-16 The second edition of this bestseller provides a practical and accessible introduction to the main concepts foundation and applications of Bayesian networks This edition contains a new chapter on Bayesian network classifiers and a new section on object oriented Bayesian networks along with new applications and case studies It includes a new section that addresses foundational problems with causal discovery and Markov blanket discovery and a new section that covers methods of evaluating causal discovery programs The book also offers more coverage on the uses of causal interventions to understand and reason with causal Bayesian networks Supplemental materials are available on the book's website *Exploratory Data Analysis with MATLAB* Wendy L.

Martinez, Angel R. Martinez, Jeffrey Solka, Angel Martinez, 2010-12-16 Since the publication of the bestselling first edition many advances have been made in exploratory data analysis EDA Covering innovative approaches for dimensionality reduction clustering and visualization *Exploratory Data Analysis with MATLAB Second Edition* uses numerous examples and applications to show how the methods are used in practice New to the Second Edition Discussions of nonnegative matrix factorization linear discriminant analysis curvilinear component analysis independent component analysis and smoothing splines An expanded set of methods for estimating the intrinsic dimensionality of a data set Several clustering methods including probabilistic latent semantic analysis and spectral based clustering Additional visualization methods such as a rangefinder boxplot scatterplots with marginal histograms biplots and a new method called Andrews images Instructions on a free MATLAB GUI toolbox for EDA Like its predecessor this edition continues to focus on using EDA methods rather than theoretical aspects The MATLAB codes for the examples EDA toolboxes data sets and color versions of all figures are available for download at <http://pi.sigma.info> *Computational Statistics Handbook with MATLAB* Wendy L. Martinez, Angel R. Martinez, 2015-12-16 A Strong Practical Focus on Applications and Algorithms *Computational Statistics Handbook with MATLAB Third Edition* covers today's most commonly used techniques in computational statistics while maintaining the same philosophy and writing style of the bestselling previous editions The text keeps theoretical concepts to a minimum emphasizing the i

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Music Data Analysis Claus Weihs, Dietmar Jannach, Igor Vatolkin, Guenter Rudolph, 2016-11-17 This book provides a comprehensive overview of music data analysis from introductory material to advanced concepts It covers various applications including transcription and segmentation as well as chord and harmony instrument and tempo recognition It also discusses the implementation aspects of music data analysis such as architecture user interface and hardware It is ideal

for use in university classes with an interest in music data analysis It also could be used in computer science and statistics as well as musicology

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R Programming for Bioinformatics Robert Gentleman, 2008-07-14 Due to its data handling and modeling capabilities as well as its flexibility R is becoming the most widely used software in bioinformatics R Programming for Bioinformatics explores the programming skills needed to use this software tool for the solution of bioinformatics and computational biology problems Drawing on the author's first hand experience

Statistics in MATLAB MoonJung Cho, Wendy L. Martinez, 2014-12-15 This primer provides an accessible introduction to MATLAB version 8 and its extensive functionality for statistics Fulfilling the need for a practical user's guide the book covers capabilities in the main MATLAB package the Statistics Toolbox and the student version of MATLAB presenting examples of how MATLAB can be used to analyze data It explains how to determine what method should be used for analysis and includes figures visual

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