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Ming-Hui Chen is Professor of Statistics at the University of Connecticut; Dipak K. Dey is Head and Professor of Statistics at the University of Connecticut; Peter M ü ller is Professor of Biostatistics at the University of Texas M. D. Anderson Cancer Center; Dongchu Sun is Professor of Statistics at the University of Missouri-Columbia; and Keying Ye is Professor of Statistics at the ...

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Congratulations to our authors, reviewers and editors across all Neuroscience journals – for pushing boundaries, accelerating new solutions, and helping all of us to live healthy lives on a healthy planet.

Research in Bayesian analysis and statistical decision theory is rapidly expanding and diversifying, making it increasingly more difficult for any single researcher to stay up to date on all current research frontiers. This book provides a review of current research challenges and opportunities. While the book can not exhaustively cover all current research areas, it does include some exemplary discussion of most research frontiers. Topics include objective Bayesian inference, shrinkage estimation and other decision based estimation, model selection and testing, nonparametric Bayes, the interface of Bayesian and frequentist inference, data mining and machine learning, methods for categorical and spatio-temporal data analysis and posterior simulation methods. Several major application areas are covered: computer models, Bayesian clinical trial design, epidemiology, phylogenetics, bioinformatics, climate modeling and applications in political science, finance and marketing. As a review of current research in Bayesian analysis the book presents a balance between theory and applications. The lack of a clear demarcation between theoretical and applied research is a reflection of the highly interdisciplinary and often applied nature of research in Bayesian statistics. The book is intended as an update for researchers in Bayesian statistics, including non-statisticians who make use of Bayesian inference to address substantive research

questions in other fields. It would also be useful for graduate students and research scholars in statistics or biostatistics who wish to acquaint themselves with current research frontiers.

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This volume brings together classic key concepts and innovative theoretical ideas in the psychology of judgment and decision-making in social contexts. The chapters of the first section address the basic psychological processes underlying judgment and decision-making. The guiding question is "What information comes to mind and how is it transformed?" The second section poses the question of how social judgments and decisions are to be evaluated. The chapters in this section present new quantitative models that help separate various forms of accuracy and bias. The third section shows how judgments and decisions are shaped by ecological constraints. These chapters show how many seemingly complex configurations of social information are tractable by relatively simple statistical heuristics. The fourth section explores the relevance of research on judgment and decision making for specific tasks of personal or social relevance. These chapters explore how individuals can efficiently select mates, form and maintain friendship alliances, judiciously integrate their attitudes with those of a group, and help shape policies that are rational and morally sound. The book is intended as an essential resource for senior undergraduates, postgraduates, researchers, and practitioners.

Statistical Methods for Dynamic Treatment Regimes shares state of the art of statistical methods developed to address questions of estimation and inference for dynamic treatment regimes, a branch of personalized medicine. This volume demonstrates these methods with their conceptual underpinnings and illustration through analysis of real and simulated data. These methods are immediately applicable to the practice of personalized medicine, which is a medical paradigm that emphasizes the systematic use of individual patient information to optimize patient health care. This is the first single source to provide an overview of methodology and results gathered from journals, proceedings, and technical reports with the goal of orienting researchers to the field. The first chapter establishes context for the statistical reader in the landscape of personalized medicine. Readers need only have familiarity with elementary calculus, linear algebra, and basic large-sample theory to use this text. Throughout the text, authors direct readers to available code or packages in different statistical languages to facilitate implementation. In cases where code does not already exist, the authors provide analytic approaches in sufficient detail that any researcher with knowledge of statistical programming could implement the methods from scratch. This will be an important volume for a wide range of researchers, including statisticians, epidemiologists, medical researchers, and machine learning researchers interested in medical applications. Advanced graduate students in statistics and biostatistics will also find material in Statistical Methods for Dynamic Treatment Regimes to be a critical part of their studies.

This new edition continues to serve as a comprehensive guide to modern and classical methods of statistical computing. The book is comprised of four main parts spanning the field: Optimization Integration and Simulation Bootstrapping Density Estimation and Smoothing Within these sections, each chapter includes a comprehensive introduction and step-by-step implementation summaries to accompany the explanations of key methods. The new edition includes updated coverage and existing topics as well as new topics such as adaptive MCMC and bootstrapping for correlated data. The book website now includes comprehensive R code for the entire book. There are extensive exercises, real examples, and helpful insights about how to use the methods in practice.

Bayesian statistics is a dynamic and fast-growing area of statistical research and the Valencia International Meetings provide the main forum for discussion. These resulting proceedings form an up-to-date collection of research.

What influences the decision to become a Christian? In the seventeenth century the famous scientist Blaise Pascal viewed this as a game, with truth our adversary. Pascal argued that we are in the game whether we like it or not. Christianity is either true or not, and we have to weigh the two alternatives. According to Pascal's Wager we have everything to win and nothing to lose by taking a leap of faith and becoming a Christian. In this book Ola H ö sser extends Pascal's Wager and argues that we respond to the Christian message very differently. There are three main attitudes among people: the first group follows Pascal's advice, even if evidence before the decision is incomplete; the second group requires convincing evidence at first; and members of the third group will not become Christians regardless of evidence. H ö sser contends that the decision consists of three components: a religious disposition from birth, evidence, and a willingness to act. Although we weigh evidence and will differently, our priorities may change after a life crisis so that we either reevaluate evidence or become more positive toward Christianity. This is illustrated by a number of people who became Christians.

The book showcases a selection of peer-reviewed papers, the preliminary versions of which were presented at a conference held 11-13 June 2011 in Bologna and organized jointly by the Italian Statistical Society (SIS), the Institute national Institute of Statistics (ISTAT) and the Bank of Italy. The theme of the conference was "Statistics in the 150 years of the Unification of Italy." The celebration of the anniversary of Italian unification provided the opportunity to examine and discuss the methodological aspects and applications from a historical perspective and both from a national and international point of view. The critical discussion on the issues of the past has made it possible to focus on recent advances, considering the studies of socio-economic and demographic changes in European countries.

This book is a selection of peer-reviewed contributions presented at the third Bayesian Young Statisticians Meeting, BAYSM 2016, Florence, Italy, June 19-21. The meeting provided a unique opportunity for young researchers, M.S. students, Ph.D. students, and postdocs dealing with Bayesian statistics to connect with the Bayesian community at large, to exchange ideas, and to network with others working in the same field. The contributions develop and apply Bayesian methods in a variety of fields, ranging from the traditional (e.g., biostatistics and reliability) to the most innovative ones (e.g., big data and networks).