1. Record Nr. UNINA9910139987903321 Autore Bernardo J. M. Titolo Bayesian theory [[electronic resource] /] / Jose M. Bernardo, Adrian F.M. Smith Pubbl/distr/stampa Chichester;; New York,: Wiley, c2000 **ISBN** 1-282-30786-X 9786612307867 0-470-31687-X 0-470-31771-X Descrizione fisica 1 online resource (611 p.) Collana Wiley series in probability and statistics Altri autori (Persone) SmithAdrian F. M Disciplina 519.5 519.542 Soggetti Bayesian statistical decision theory Statistical decision Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Originally published: 1994. Note generali Nota di bibliografia Includes bibliographical references (p. [489]-554) and indexes. BAYESIAN THEORY; Contents; 1. INTRODUCTION; 1.1. Thomas Bayes; Nota di contenuto 1.2. The subjectivist view of probability; 1.3. Bayesian Statistics in perspective; 1.4. An overview of Bayesian Theory; 1.4.1. Scope; 1.4.2. Foundations; 1.4.3. Generalisations; 1.4.4. Modelling; 1.4.5. Inference; 1.4.6. Remodelling; 1.4.7. Basic formulae; 1.4.8. Non-Bayesian theories; 1.5. A Bayesian reading list; 2. FOUNDATIONS; 2.1. Beliefs and actions; 2.2. Decision problems; 2.2.1. Basic elements; 2.2.2. Formal representation; 2.3. Coherence and quantification; 2.3.1. Events, options and preferences 2.3.2. Coherent preferences 2.3.3. Quantification; 2.4. Beliefs and probabilities; 2.4.1. Representation of beliefs; 2.4.2. Revision of beliefs and Bayes' theorem; 2.4.3. Conditional independence; 2.4.4. Sequential revision of beliefs; 2.5. Actions and utilities; 2.5.1. Bounded sets of consequences; 2.5.2. Bounded decision problems; 2.5.3. General decision problems; 2.6. Sequential decision problems; 2.6.1. Complex

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Sommario/riassunto

This highly acclaimed text, now available in paperback, provides a thorough account of key concepts and theoretical results, with particular emphasis on viewing statistical inference as a special case of decision theory. Information-theoretic concepts play a central role in the development of the theory, which provides, in particular, a detailed discussion of the problem of specification of so-called prior ignorance. The work is written from the authors s committed Bayesian perspective, but an overview of non-Bayesian theories is also provided, and each chapter contains a wide-ranging critica