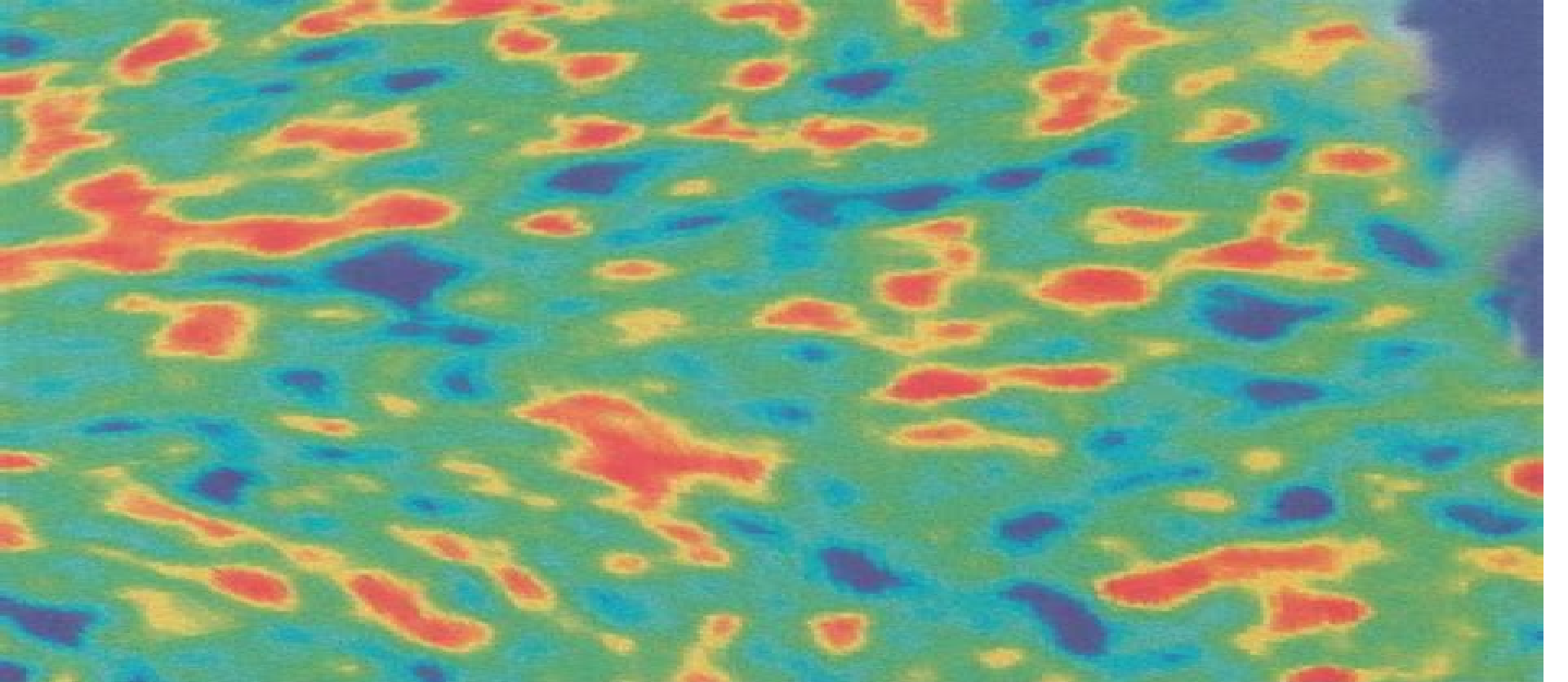
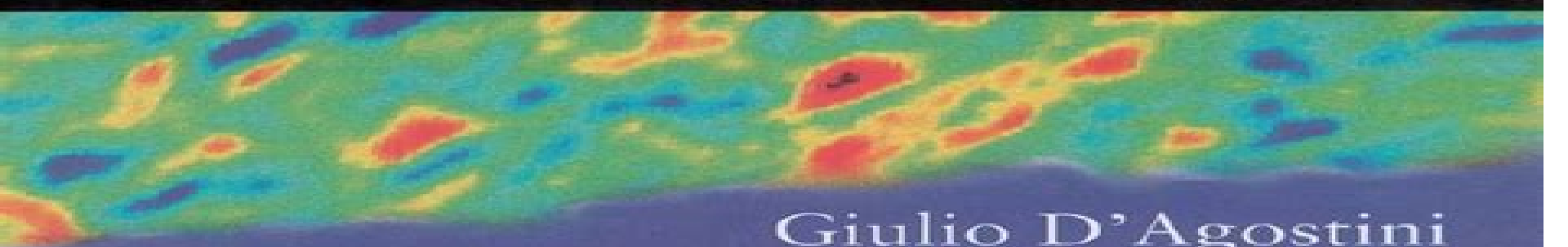




Bayesian Reasoning in Data Analysis

A Critical Introduction



Giulio D'Agostini

Bayesian Reasoning In Data Analysis A Critical Introduction

Klaus Rabbertz



Bayesian Reasoning In Data Analysis A Critical Introduction:

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Bayesian Reasoning In Data Analysis: A Critical Introduction Giulio D'agostini, 2003-06-13 This book provides a multi level introduction to Bayesian reasoning as opposed to conventional statistics and its applications to data analysis The basic ideas of this new approach to the quantification of uncertainty are presented using examples from research and everyday life Applications covered include parametric inference combination of results treatment of uncertainty due to systematic errors and background comparison of hypotheses unfolding of experimental distributions upper lower bounds in frontier type measurements Approximate methods for routine use are derived and are shown often to coincide under well defined assumptions with standard methods which can therefore be seen as special cases of the more general Bayesian methods In dealing with uncertainty in measurements modern metrological ideas are utilized including the ISO classification of uncertainty into type A and type B These are shown to fit well into the Bayesian framework

A Farewell to Entropy Ariele Ben-Naim, 2008 The principal message of this book is that thermodynamics and statistical mechanics will benefit from replacing the unfortunate misleading and mysterious term entropy with a more familiar meaningful and appropriate term such as information missing information or uncertainty This replacement would facilitate the interpretation of the driving force of many processes in terms of informational changes and dispel the mystery that has always enshrouded entropy It has been 140 years since Clausius coined the term entropy almost 50 years since Shannon developed the mathematical theory of information subsequently renamed entropy In this book the author advocates replacing entropy by information a term that has become widely used in many branches of science The author also takes a new and bold approach to thermodynamics and statistical mechanics Information is used not only as a tool for predicting distributions but as the fundamental cornerstone concept of thermodynamics held until now by the term entropy The topics covered include the fundamentals of probability and information theory the general concept of information as well as the particular concept of information as applied in thermodynamics the re derivation of the Sackur Tetrode equation for the entropy of an ideal gas from purely informational arguments the fundamental formalism of statistical mechanics and many examples of simple processes the driving force for which is analyzed in terms of information

Nonlinear Filters Peyman Setoodeh, Saeid Habibi, Simon Haykin, 2022-04-12 NONLINEAR FILTERS Discover the utility of using deep learning and deep reinforcement learning in deriving filtering algorithms with this insightful and powerful new resource Nonlinear Filters Theory and Applications delivers an insightful view on state and parameter estimation by merging ideas from control theory statistical signal processing and machine learning Taking an algorithmic approach the book covers both classic and machine learning based filtering algorithms

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Entropy Demystified: The Second Law Reduced To Plain Common Sense (Revised Edition) Arie Ben-naim, 2008-06-18 In this unique book the reader is invited to experience the joy of appreciating something which has eluded understanding for many years entropy and the Second Law of Thermodynamics The book has a two pronged message first that the second law is not infinitely incomprehensible as commonly stated in most textbooks on thermodynamics but can in fact be comprehended through sheer common sense and second that entropy is not a mysterious quantity that has resisted understanding but a simple familiar and easily comprehensible concept Written in an accessible style the book guides the reader through an abundance of dice games and examples from everyday life The author paves the way for readers to discover for themselves what entropy is how it changes and most importantly why it always changes in one direction in a spontaneous process In this new edition seven simulated games are included so that the reader can actually experiment with the games described in the book These simulated games are meant to enhance the readers understanding and sense of joy upon discovering the Second Law of Thermodynamics

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commonly stated in textbooks of thermodynamics but can in fact be comprehended through sheer common sense and second that entropy is not a mysterious quantity that has resisted understanding but a simple familiar and easily comprehensible concept Written in an accessible style the book guides the reader through an abundance of dice games and examples from everyday life The author paves the way for readers to discover for themselves what entropy is how it changes and most importantly why it always changes in one direction in a spontaneous process

Jet Physics at the LHC Klaus Rabbertz, 2016-10-11 This book reviews the latest experimental results on jet physics from proton proton collisions at the LHC Jets allow to determine the strong coupling constant over a wide range of energies up the highest ones possible so far and to constrain the gluon parton distribution of the proton both of which are important uncertainties on theory predictions in general and for the Higgs boson in particular A novel approach in this book is to categorize the examined quantities according to the types of absolute ratio or shape measurements and to explain in detail the advantages and differences Including numerous illustrations and tables the physics message and impact of each observable is clearly elaborated

Handbook of Nuclear Physics Isao Tanihata, Hiroshi Toki, Toshitaka Kajino, 2023-09-04 This handbook is a comprehensive systematic source of modern nuclear physics It aims to summarize experimental and theoretical discoveries and an understanding of unstable nuclei and their exotic structures which were opened up by the development of radioactive ion RI beam in the late 1980s The handbook comprises three major parts In the first part the experiments and measured facts are well organized and reviewed The second part summarizes recognized theories to explain the experimental facts introduced in the first part Reflecting recent synergistic progress involving both experiment and theory the chapters both parts are mutually related The last part focuses on cosmo nuclear physics one of the mainstream subjects in modern nuclear physics Those comprehensive topics are presented concisely Supported by introductory reviews all chapters are designed to present their topics in a manner accessible to readers at the graduate level The book therefore serves as a valuable source for beginners as well helping them to learn modern nuclear physics

Statistical Methods for Data Analysis in Particle Physics Luca Lista, 2017-10-13 This concise set of course based notes provides the reader with the main concepts and tools needed to perform statistical analyses of experimental data in particular in the field of high energy physics HEP First the book provides an introduction to probability theory and basic statistics mainly intended as a refresher from readers advanced undergraduate studies but also to help them clearly distinguish between the Frequentist and Bayesian approaches and interpretations in subsequent applications More advanced concepts and applications are gradually introduced culminating in the chapter on both discoveries and upper limits as many applications in HEP concern hypothesis testing where the main goal is often to provide better and better limits so as to eventually be able to distinguish between competing hypotheses or to rule out some of them altogether Many worked out examples will help newcomers to the field and graduate students alike understand the pitfalls involved in applying theoretical concepts to actual data This new second edition significantly expands

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