

Tilo Strutz

Data Fitting and Uncertainty

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Data Fitting Uncertainty Practical Introduction

Cen Wan



Data Fitting Uncertainty Practical Introduction:

Data Fitting and Uncertainty Tilo Strutz, 2010-09-30 The subject of data fitting bridges many disciplines especially those traditionally dealing with statistics like physics mathematics engineering biology economy or psychology but also more recent fields like computer vision This book addresses itself to engineers and computer scientists or corresponding undergraduates who are interested in data fitting by the method of least squares approximation but have no or only limited pre knowledge in this field Experienced readers will find in it new ideas or might appreciate the book as a useful work of reference Familiarity with basic linear algebra is helpful though not essential as the book includes a self contained introduction and presents the method in a logical and accessible fashion The primary goal of the text is to explain how data fitting via least squares works The reader will find that the emphasis of the book is on practical matters not on theoretical problems In addition the book enables the reader to design own software implementations with application specific model functions based on the comprehensive discussion of several examples The text is accompanied with working source code in ANSI C for fitting with weighted least squares including outlier detection Among others the book covers following topics fitting of linear and nonlinear functions with one or multi dimensional variables weighted least squares outlier detection evaluation of the fitting results different optimisation strategies combined fitting of different model functions total least squares approach with multi dimensional conditions

[Dynamic Measuring Systems](#) Sascha Eichstädt, 2023-11-06 This book introduces the concepts at the basis of dynamic measuring systems vocabulary modelling calibration measurement data analysis uncertainty evaluation It also provides the mathematical foundations for signal processing stochastic processes and control theory necessary for the analysis of dynamic measurements Concepts and practical approaches for dynamic calibration and dynamic measurement are introduced to the readership through concrete examples ranging from mechanical quantities and medical ultrasound to the Internet of Things IoT

Optimization Techniques and Applications with Examples Xin-She Yang, 2018-08-30 A guide to modern optimization applications and techniques in newly emerging areas spanning optimization data science machine intelligence engineering and computer sciences Optimization Techniques and Applications with Examples introduces the fundamentals of all the commonly used techniques in optimization that encompass the broadness and diversity of the methods traditional and new and algorithms The author a noted expert in the field covers a wide range of topics including mathematical foundations optimization formulation optimality conditions algorithmic complexity linear programming convex optimization and integer programming In addition the book discusses artificial neural network clustering and classifications constraint handling queueing theory support vector machine and multi objective optimization evolutionary computation nature inspired algorithms and many other topics Designed as a practical resource all topics are explained in detail with step by step examples to show how each method works The book s exercises test the acquired knowledge that can be potentially applied to real problem solving By taking an informal approach to the subject the

author helps readers to rapidly acquire the basic knowledge in optimization operational research and applied data mining This important resource Offers an accessible and state of the art introduction to the main optimization techniques Contains both traditional optimization techniques and the most current algorithms and swarm intelligence based techniques Presents a balance of theory algorithms and implementation Includes more than 100 worked examples with step by step explanations Written for upper undergraduates and graduates in a standard course on optimization operations research and data mining Optimization Techniques and Applications with Examples is a highly accessible guide to understanding the fundamentals of all the commonly used techniques in optimization

Dimensional Analysis Across the Landscape of Physics Richard W. Robinett, 2025-04-23 Dimensional Analysis Across the Landscape of Physics introduces readers to the powerful idea that almost all physical quantities in science and engineering can be described using only five base dimensions mass length time charge and temperature and combinations thereof Starting with the basics of how this foundational intellectual concept arises it illustrates the use of dimensional analysis in approaching the solutions to textbook level problems in physics and adjacent fields ranging from introductory courses through the advanced undergraduate curriculum to advanced Physics electives It covers the core curricular topics of classical mechanics electricity and magnetism thermal physics and quantum mechanics It includes examples of the use of dimensional analysis applied to topics from other related fields such as geosciences meteorology engineering and biophysics to emphasize the utility of such methods across the proverbial landscape of physics There is also coverage of more specialized topics such as advanced quantum mechanics particle physics field theory condensed matter physics and astrophysics and gravitation Many worked examples are included as well as an extensive array of end of chapter problems with a solution manual available to instructors In addition to covering the standard topics in the undergraduate curriculum the book explores how dimensional analysis has been used and continues to be used in research across all fields of physics citing examples from the historical literature and from very recent research results The work includes extensive references to the original papers for further study as well as useful ancillary material including a dimensional analysis dictionary brief introductions to data fitting and connections to metrology There is an emphasis throughout on the use of modern symbolic programming to streamline the process of the solving systems of linear equations needed for a dimensional analysis approach with several Mathematica templates provided for reader use

Hierarchical Feature Selection for Knowledge Discovery Cen Wan, 2018-11-29 This book is the first work that systematically describes the procedure of data mining and knowledge discovery on Bioinformatics databases by using the state of the art hierarchical feature selection algorithms The novelties of this book are three fold To begin with this book discusses the hierarchical feature selection in depth which is generally a novel research area in Data Mining Machine Learning Seven different state of the art hierarchical feature selection algorithms are discussed and evaluated by working with four types of interpretable classification algorithms i e three types of Bayesian network classification algorithms and the

k nearest neighbours classification algorithm Moreover this book discusses the application of those hierarchical feature selection algorithms on the well known Gene Ontology database where the entries terms are hierarchically structured Gene Ontology database that unifies the representations of gene and gene products annotation provides the resource for mining valuable knowledge about certain biological research topics such as the Biology of Ageing Furthermore this book discusses the mined biological patterns by the hierarchical feature selection algorithms relevant to the ageing associated genes Those patterns reveal the potential ageing associated factors that inspire future research directions for the Biology of Ageing research

Algorithmic Mechanism Design for Internet of Things Services Market Yutao Jiao, Ping Wang, Dusit Niyato, 2021-11-26 This book establishes game theoretical frameworks based on the mechanism design theory and proposes strategy proof algorithms to optimally allocate and price the related IoT services so that the social welfare of IoT ecosystem or the service provider's revenue can be maximized and the IoT service provision can be sustainable This book is written by experts based on the recent research results on the interaction between the service providers and users in the IoT system Since the IoT networks are essentially supported by data communication and computing resources the book focuses on three representative IoT services including the data analytics services the cloud fog computing services for blockchain networks and the wireless powered data crowdsourcing services Researchers scientists and engineers in the field of resource allocation and service management for future IoT ecosystem can benefit from the book As such this book provides valuable insights and practical methods especially the novel deep learning based mechanism that can be considered in the emerging IoT technology

Recent Advances on the Mechanical Behaviour of Materials Erick I. Saavedra Flores, Rodrigo Astroza, Raj Das, 2024-04-29 This book is a collection of papers presented at the 14th International Conference on the Mechanical Behavior of Materials ICM 14 held in Santiago Chile July 12-14 2023 The mechanical properties of materials play a critical role in industrial and economic development Advances in this field present significant challenges for current researchers in both industry and academia The topics covered include mechanics of materials at the nano and macro scale including metals composites ceramics computational mechanics dynamics material processing optimization and biomechanics The scope of materials of interest includes both industrial materials and those under development or used in specific applications Some specific subjects include general mechanical behavior and constitutive models mathematical modeling of materials nano and micro mechanics plasticity computational mechanics computational materials design optimization of structures and materials multi scale modeling and various specific materials such as biomaterials high temperature materials and composites

Business Intelligence and Data Mining Techniques Dwaipayan Sethi, 2025-02-20 Business Intelligence and Data Mining Techniques is a comprehensive guide that explores the world of data analysis and data driven decision making In an era where big data is ubiquitous businesses social media machines and more generate vast amounts of data Organizations face a choice be overwhelmed by data or harness it for a competitive advantage This book

aims to demystify data science a field that has gained immense popularity and is now considered one of the most desirable careers Designed to provide students with an understanding of data mining and business intelligence the book covers essential techniques and platforms within a semester or quarter course It highlights the importance of transforming raw data into meaningful actionable insights Data engineers use software to identify patterns analyze consumer behavior compare datasets and optimize strategies sales and marketing campaigns While data mining data analysis and business intelligence are often used interchangeably this book clarifies their differences Data mining involves extracting information from large datasets while data analysis focuses on finding patterns in that information including exploration cleaning transformation and modeling The ultimate goal of this book is to guide readers in discovering insights drawing conclusions and making informed decisions

Smart Computing Applications in Crowdfunding Bo Xing,Tshilidzi Marwala,2018-12-07 The book focuses on smart computing for crowdfunding usage looking at the crowdfunding landscape e g reward donation equity P2P based and the crowdfunding ecosystem e g regulator asker backer investor and operator The increased complexity of fund raising scenario driven by the broad economic environment as well as the need for using alternative funding sources has sparked research in smart computing techniques Covering a wide range of detailed topics the authors of this book offer an outstanding overview of the current state of the art providing deep insights into smart computing methods tools and their applications in crowdfunding exploring the importance of smart analysis prediction and decision making within the fintech industry This book is intended to be an authoritative and valuable resource for professional practitioners and researchers alike as well as finance engineering and computer science students who are interested in crowdfunding and other emerging fintech topics

Intelligent Data Engineering and Automated Learning - IDEAL 2023 Paulo Quaresma,David Camacho,Hujun Yin,Teresa Gonçalves,Vicente Julian,Antonio J. Tallón-Ballesteros,2023-11-14 This book constitutes the proceedings of the 24th International Conference on Intelligent Data Engineering and Automated Learning IDEAL 2023 held in vora Portugal during November 22 24 2023 The 45 full papers and 4 short papers presented in this book were carefully reviewed and selected from 77 submissions IDEAL 2023 is focusing on big data challenges machine learning deep learning data mining information retrieval and management bio neuro informatics bio inspired models agents and hybrid intelligent systems and real world applications of intelligence techniques and AI The papers are organized in the following topical sections main track special session on federated learning and pre aggregation in machine learning special session on intelligent techniques for real world applications of renewable energy and green transport and special session on data selection in machine learning

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