

Springer Texts in Statistics

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An Introduction to Statistical Learning

with Applications in Python

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Machine Learning Applications in Industrial Solid Ash Chongchong Qi, Qiusong Chen, Erol Yilmaz, 2023-12-01

Offering the ability to process large or complex datasets machine learning ML holds huge potential to reshape the whole status for solid ash management and recycling Machine Learning for Solid Ash Management and Recycling is as far as the author knows the first published book about ML in solid ash management and recycling This book highlights fundamental knowledge and recent advances in this topic offering readers new insight into how these tools can be utilized to enhance their own work The reference begins with fundamentals in solid ash covering the status of solid ash generation and management The book moves on to foundational knowledge on ML in solid ash management which provides a brief introduction of ML for solid ash applications The reference then goes on to discuss ML approaches currently used to address problems in solid ash management and recycling including solid ash generation clustering analysis origin identification reactivity prediction leaching potential modelling and metal recovery evaluation etc Finally potential future trends and challenges in the field are discussed Helps readers increase their existing knowledge on data mining and ML Teaches how to apply ML techniques that work best in solid ash management and recycling through providing illustrative examples and complex practice solutions Provides an accessible introduction to the current state and future possibilities for ML in solid ash management and recycling

Fundamentals of Data Science Sanjeev J. Wagh, Manisha S. Bhende, Anuradha D.

Thakare, 2021-09-26 Fundamentals of Data Science is designed for students academicians and practitioners with a complete walkthrough right from the foundational groundwork required to outlining all the concepts techniques and tools required to understand Data Science Data Science is an umbrella term for the non traditional techniques and technologies that are required to collect aggregate process and gain insights from massive datasets This book offers all the processes methodologies various steps like data acquisition pre process mining prediction and visualization tools for extracting insights from vast amounts of data by the use of various scientific methods algorithms and processes Readers will learn the steps necessary to create the application with SQL NoSQL Python R Matlab Octave and Tableau This book provides a stepwise approach to building solutions to data science applications right from understanding the fundamentals performing data analytics to writing source code All the concepts are discussed in simple English to help the community to become Data Scientist without much pre requisite knowledge Features Simple strategies for developing statistical models that analyze data and detect patterns trends and relationships in data sets Complete roadmap to Data Science approach with dedicated sections which includes Fundamentals Methodology and Tools Focussed approach for learning and practice various Data Science Tools with Sample code and examples for practice Information is presented in an accessible way for students researchers and academicians and professionals

A Computational Introduction to Digital Image Processing Alasdair

McAndrew, 2015-10-28 Highly Regarded Accessible Approach to Image Processing Using Open Source and Commercial

SoftwareA Computational Introduction to Digital Image Processing Second Edition explores the nature and use of digital images and shows how they can be obtained stored and displayed Taking a strictly elementary perspective the book only covers topics that **Process Modelling and Simulation** César de Prada,Constantinos Pantelides,José Luis

Pitarch,2019-09-23 Since process models are nowadays ubiquitous in many applications the challenges and alternatives related to their development validation and efficient use have become more apparent In addition the massive amounts of both offline and online data available today open the door for new applications and solutions However transforming data into useful models and information in the context of the process industry or of bio systems requires specific approaches and considerations such as new modelling methodologies incorporating the complex stochastic hybrid and distributed nature of many processes in particular The same can be said about the tools and software environments used to describe code and solve such models for their further exploitation Going well beyond mere simulation tools these advanced tools offer a software suite built around the models facilitating tasks such as experiment design parameter estimation model initialization validation analysis size reduction discretization optimization distributed computation co simulation etc This Special Issue collects novel developments in these topics in order to address the challenges brought by the use of models in their different facets and to reflect state of the art developments in methods tools and industrial applications **An Introduction to**

Stochastic Modeling Gabriel Lord,Cónall Kelly,2026-01-02 An Introduction to Stochastic Modeling Fifth Edition bridges the gap between basic probability and an intermediate level course in stochastic processes serving as the foundation for either a one semester or two semester course in stochastic processes for students familiar with elementary probability theory and calculus The objectives are to introduce students to the standard concepts and methods of stochastic modeling to illustrate the rich diversity of applications of stochastic processes in the applied sciences and to provide an integrated treatment of theory applications and practical implementation A well regarded resource for many years the text is an ideal foundation for a one semester course in stochastic processes for students familiar with elementary probability theory and calculus Explores realistic applications from a variety of disciplines including biological chemical and financial examples Provides extensive end of chapter exercises sets with answers as well as numerical illustrations and pseudo code links to downloadable resources Presents new coverage on stochastic differential equations Brownian motion Martingale and Poisson processes Includes computational examples codes and exercises that will empower students to explore concepts in a practical way Offers online support sample code and solutions to coding problems and access to code such as Python for students Research for

Practical Issues and Solutions in Computerized Multistage Testing Duanli Yan,Alina A. von Davier,David J. Weiss,2024-12-27 This volume presents a comprehensive collection of the latest research findings supporting the current and future implementations and applications of computerized multistage testing MST As a sequel to the widely acclaimed Computerized Multistage Testing Theory and Applications 2014 by Yan von Davier and Lewis this volume delves into the experiences

considerations challenges and lessons learned over the past years It also offers practical approaches and solutions to the issues encountered The topics covered include purposeful MST designs practical approaches for optimal design assembly strategies for accuracy and efficiency hybrid designs MST with natural language processing practical routing considerations and methodologies item calibration and proficiency estimation methods routing and classification accuracy added value of process data prediction and evaluation of MST performance cognitive diagnostic MST differential item functioning robustness of statistical methods simulations test security the new digital large scale Scholastic Aptitude Test software for practical assessment and simulations artificial intelligence impact and the future of adaptive MST This volume is intended for students faculty researchers practitioners and education officers in the fields of educational measurement and evaluation in the United States and internationally

Automatic Generation Of Algorithms

Victor Parada,2025-02-10 In the rapidly evolving domain of computational problem solving this book delves into the cutting edge Automatic Generation of Algorithms AGA paradigm a groundbreaking approach poised to redefine algorithm design for optimization problems Spanning combinatorial optimization machine learning genetic programming and beyond it investigates AGA s transformative capabilities across diverse application areas The book initiates by introducing fundamental combinatorial optimization concepts and NP-hardness significance laying the foundation for understanding AGA s necessity and potential It then scrutinizes the pivotal Master Problem concept in AGA and the art of modeling for algorithm generation The exploration progresses with integrating genetic programming and synergizing AGA with evolutionary computing Subsequent chapters delve into the AGA machine learning intersection highlighting their shared optimization foundation while contrasting divergent objectives The automatic generation of metaheuristics is examined aiming to develop versatile algorithmic frameworks adaptable to various optimization problems Furthermore the book explores applying reinforcement learning techniques to automatic algorithm generation Throughout it invites readers to reimagine algorithmic design boundaries offering insights into AGA s conceptual underpinnings practical applications and future directions serving as an invitation for researchers practitioners and enthusiasts in computer science operations research artificial intelligence and beyond to embark on a journey toward computational excellence where algorithms are born evolved and adapted to meet ever changing real world problem landscapes

Python in Neuroscience

Eilif Muller,James A. Bednar,Markus Diesmann,Marc-Oliver Gewaltig,Michael Hines,Andrew P. Davison,2015-07-23 Python is rapidly becoming the de facto standard language for systems integration Python has a large user and developer base external to the neuroscience community and a vast module library that facilitates rapid and maintainable development of complex and intricate systems In this Research Topic we highlight recent efforts to develop Python modules for the domain of neuroscience software and neuroinformatics simulators and simulator interfaces data collection and analysis sharing re use storage and databasing of models and data stimulus generation parameter search and optimization visualization VLSI hardware interfacing Moreover we seek to provide a

representative overview of existing mature Python modules for neuroscience and neuroinformatics to demonstrate a critical mass and show that Python is an appropriate choice of interpreter interface for future neuroscience software development

Finite Element Methods in Civil and Mechanical Engineering Arzhang Angoshtari, Ali Gerami Matin, 2020-12-09 The finite element method is widely employed for numerical simulations in engineering and science due to its accuracy and efficiency This concise introduction to the mathematical theory of the finite element method presents a selection of applications in civil and mechanical engineering including beams elastic membranes the wave equation heat transfer seepage in embankment soil consolidation incompressible fluids and linear elasticity Jupyter notebooks containing all Python programs of each chapter can be downloaded from the book's companion website Arzhang Angoshtari is an assistant professor and Ali Gerami Matin is a graduate student both in the department of Civil and Environmental Engineering at the George Washington University USA Their research interests cover theoretical and computational mechanics and finite element methods

Introduction to Software for Chemical Engineers Mariano Martín Martín, 2025-03-24 The field of chemical engineering and its link to computer science is in constant evolution and engineers have an ever growing variety of tools at their disposal to tackle everyday problems Introduction to Software for Chemical Engineers Third Edition provides a quick guide to the use of various computer packages for chemical engineering applications It covers a range of software applications including Excel and general mathematical packages such as MATLAB MathCAD R and Python Coverage also extends to process simulators such as CHEMCAD HYSYS and Aspen equation based modeling languages such as gPROMS optimization software such as GAMS AIMS and Julia and specialized software like CFD or DEM codes The different packages are introduced and applied to solve typical problems in fluid mechanics heat and mass transfer mass and energy balances unit operations reactor engineering and process and equipment design and control This new edition is updated throughout to reflect software updates and new packages It emphasizes the addition of SimaPro due to the importance of life cycle assessment as well as general statistics software SPSS and Minitab that readers can use to analyze lab data The book also includes new chapters on flowsheeting drawing process control and LOOP Pro as well as updates to include Pyomo as an optimization platform reflecting current trends The text offers a global idea of the capabilities of the software used in the chemical engineering field and provides examples for solving real world problems Written by leading experts this handbook is a must have reference for chemical engineers looking to grow in their careers through the use of new and improving computer software Its user friendly approach to simulation and optimization as well as its example based presentation of the software makes it a perfect teaching tool for both undergraduate and graduate level readers

Kompedium der Web-Programmierung Thomas Walter, 2007-10-11 Die Programmierung f r das Internet ist heute Basis und zugleich Motor f r die Wissensgesellschaft Das Kompedium der Web Programmierung stellt die ganze Bandbreite der aktuellen Ans tze praxisorientiert vor Neben allgemeinen Grundlagen des Internets werden relevante Techniken von der klassischen CGI

Programmierung und modernen Scriptsprachen wie Ruby bis hin zu den J2EE Techniken mit Servlets und JSP sowie einschlägige Frameworks wie Ruby on Rails erläutern. Ergänzende Themen sind performante Web Applikationen mit Ansätzen wie fastCGI, Sicherheit, Barrierefreiheit, Content Management Systeme und Software Design für das Web. Hinzu kommt eine Vielzahl von Tipps aus der Praxis. Ziel ist es, eine komplexe und performante Web Anwendung wie eBay entwickeln zu können. Eine typische Beispielanwendung zieht sich konsequent durch alle Techniken und macht jeden Bereich nachvollziehbar. Ein umfassendes Web Angebot unter www.webkompendium.de mit getesteten Quellcodes und weiteren Materialien rundet das Buch ab.

Speicherprogrammierbare Steuerungen im Industrial IoT Matthias Seitz, 2024-11-11. Das vorliegende Lehrbuch zeigt, wie industrielle Prozesse mit speicherprogrammierbaren Steuerungen automatisiert werden können. In der 6. Auflage wird die Einbindung von SPSen in die digitale Fabrik mit Robotern und autonomen Systemen ebenso beschrieben, wie die Nutzung der von der SPS gesammelten Prozessdaten im Industrial IoT. Die Hauptabschnitte des Buches sind: Aufbau industrieller Steuerungen, SPS Programmierung nach IEC 61131, Entwurf kontinuierlicher Steuerungen, Entwurf von Ablaufsteuerungen, Objektorientierte SPS Programmierung, Motion Control in der Fabrikautomatisierung, Industrial IoT in der Prozessautomatisierung, Safety und Security im Industrial IoT, Digital Engineering zuverlässiger Steuerungen. Zahlreiche Beispiele und Übungen unterstützen die Leserinnen und Leser beim Erlernen der beschriebenen Methoden und Werkzeuge. Auf der Webseite www.seitz-et-hs-mannheim.de stehen die Programme zu den Beispielen, Lösungen zu den Übungsaufgaben, Videos, Frage Antwortspiele und Bibliotheken wichtiger Funktionsbausteine zur Verfügung. Die 6. Auflage wurde komplett aktualisiert und im Hinblick auf Anforderungen und Einsatz an die SPS im Industrial IoT bearbeitet.

How to Think about Data Science Diego Miranda-Saavedra, 2022-12-23. This book is a timely and critical introduction for those interested in what data science is and isn't and how it should be applied. The language is conversational and the content is accessible for readers without a quantitative or computational background, but at the same time it is also a practical overview of the field for the more technical readers. The overarching goal is to demystify the field and teach the reader how to develop an analytical mindset instead of following recipes. The book takes the scientist's approach of focusing on asking the right question at every step, as this is the single most important factor contributing to the success of a data science project. Upon finishing this book, the reader should be asking more questions than I have answered. This book is therefore a practising scientist's approach to explaining data science through questions and examples.

Data Science for Web3 Gabriela Castillo Areco, 2023-12-29. Be part of the future of Web3, decoding blockchain data to build trust in the next generation internet. Key Features: Build a deep understanding of the fundamentals of blockchain analytics. Extract actionable business insights by modeling blockchain data. Showcase your work and gain valuable experience to seize opportunities in the Web3 ecosystem. Purchase of the print or Kindle book includes a free PDF eBook. Book Description: Data is the new oil, and Web3 is generating it at an unprecedented rate. Complete with practical examples, detailed explanations, and ideas for portfolio development, this comprehensive book

serves as a step by step guide covering the industry best practices tools and resources needed to easily navigate the world of data in Web3 You ll begin by acquiring a solid understanding of key blockchain concepts and the fundamental data science tools essential for Web3 projects The subsequent chapters will help you explore the main data sources that can help address industry challenges decode smart contracts and build DeFi and NFT specific datasets You ll then tackle the complexities of feature engineering specific to blockchain data and familiarize yourself with diverse machine learning use cases that leverage Web3 data The book includes interviews with industry leaders providing insights into their professional journeys to drive innovation in the Web 3 environment Equipped with experience in handling crypto data you ll be able to demonstrate your skills in job interviews academic pursuits or when engaging potential clients By the end of this book you ll have the essential tools to undertake end to end data science projects utilizing blockchain data empowering you to help shape the next generation internet What you will learn Understand the core components of blockchain transactions and blocks Identify reliable sources of on chain and off chain data to build robust datasets Understand key Web3 business questions and how data science can offer solutions Build your skills to create and query NFT and DeFi specific datasets Implement a machine learning toolbox with real world use cases in the Web3 space Who this book is for This book is designed for data professionals data analysts data scientists or data engineers and business professionals aiming to acquire the skills for extracting data from the Web3 ecosystem as it demonstrates how to effectively leverage data tools for in depth analysis of blockchain transactional data If you seek hands on experience you ll find value in the shared repository enabling you to experiment with the provided solutions While not mandatory a basic understanding of statistics machine learning and Python will enhance your learning experience

Hands-On Prescriptive Analytics Walter R. Paczkowski, 2024-10-17 Business decisions in any context operational tactical or strategic can have considerable consequences Whether the outcome is positive and rewarding or negative and damaging to the business its employees and stakeholders is unknown when action is approved These decisions are usually made under the proverbial cloud of uncertainty With this practical guide data analysts data scientists and business analysts will learn why and how maximizing positive consequences and minimizing negative ones requires three forms of rich information Descriptive analytics explores the results from an action what has already happened Predictive analytics focuses on what could happen The third prescriptive analytics informs us what should happen in the future While all three are important for decision makers the primary focus of this book is on the third prescriptive analytics Author Walter R Paczkowski Ph D shows you The distinction among descriptive predictive and prescriptive analytics How predictive analytics produces a menu of action options How prescriptive analytics narrows the menu of action options The forms of prescriptive analytics eight prescriptive methods Two broad classes of these methods non stochastic and stochastic How to develop prescriptive analyses for action recommendations Ways to use an appropriate tool set in Python

Post-Archean Granitic Rocks V. Janoušek, B. Bonin, W.J. Collins, F. Farina, P. Bowden, 2020-07-02 Granites sensu lato

represent the dominant rock type forming the upper middle continental crust but their origin remains a matter of long standing controversy The granites may result from fractionation of mantle derived basaltic magmas or partial melting of different crustal protoliths at contrasting P T conditions either water fluxed or fluid absent Consequently many different mechanisms have been proposed to explain the compositional variability of granites ranging from whole igneous suites down to mineral scale This book presents an overview of the state of the art and envisages future avenues towards a better understanding of granite petrogenesis Particular emphasis of this Volume is on the following topics Compositional variability of granitic rocks generated in contrasting geodynamic settings during Proterozoic to Phanerozoic Periods Main permissible mechanisms producing subduction related granites Crustal anatexis of different protoliths and the role of water in granite petrogenesis New theoretical and analytical tools available for modelling whole rock geochemistry in order to decipher the sources and evolution of granitic suites

Informatik, Programmieren, Kybernetik

Stefan Hölting, 2018-11-05 Der zweite Band der Lehrbuchreihe Medientechnisches Wissen stellt die Themen Informatik Kybernetik sowie vier Programmiersprachen für Medienwissenschaftler vor Damit soll Studenten ein Lehrwerk und Dozenten ein Kompendium an die Hand gegeben werden in dem die technischen Grundlagen von Medien und der sie betreffenden Fachdisziplinen kleinschrittig vermittelt werden Im ersten Kapitel wird in für digitale Medientechnik zentrale Aspekte der Informatik eingeführt Die historischen und epistemologischen Hintergründe des Computers werden dabei ebenso verhandelt wie Aspekte der theoretischen Informatik welche die Grenzen dieses Mediums markieren Das zweite Kapitel stellt die vier Programmiersprachen Assembler BASIC C und Python vor Diese Sprachen sind sowohl als Gegenstände von besonderem medienwissenschaftlichen Interesse als auch als Tools um digitale Medien programmierend zu erforschen Mit der Kybernetik im dritten Kapitel wird eine immer noch aktuelle Disziplin in ihrer medienwissenschaftlichen Bedeutung behandelt Der Akzent liegt hier auf der Kybernetik zweiter Ordnung die vielfältige Verflechtungen mit der Medienwissenschaft aufweist In Band 1 wurde in die Themengebiete Logik Informations und Speichertheorie eingeführt Band 3 beschäftigt sich mit der Mathematik Physik und Chemie der Medien In Band 4 werden Elektronik Messtechnik am Beispiel eines selbstgebauten Computers und die Facharchologie für Medienwissenschaftler vorgestellt Stefan Hölting ist Medienwissenschaftler an der Humboldt Universität zu Berlin Er lehrt dort Theorien Geschichte und Informatik der Medien und forscht zur Archologie für den Mikrocomputer und ihrer Programmierung Thorsten Schler ist Professor für Informatik an der Fakultät für Informatik an der Hochschule für angewandte Wissenschaften Augsburg Koordinator der Forschungsgruppe Verteilte Systeme und seit 2016 Honorary Doctor of Odessa National Polytechnic University Johannes Maibaum ist Medieninformatiker und entwickelt eingebettete Multimediasysteme für Tonwelt GmbH Berlin Er studierte Medienwissenschaft an der HU Berlin mit den Schwerpunkten Technikphilosophie und Computerarchologie Thomas Fischer ist Professor für Architektur an der Xi'an Jiaotong Liverpool Universität in Suzhou China Designforscher und Kybernetiker Fellow der Design Research Society sowie

ein Vize Präsident und Träger des Warren McCulloch Award der American Society for Cybernetics *Mechatronics for Complex Products and Systems* Zhuming Bi, 2025-02-12 A project based approach to designing mechatronic systems with new and emerging technologies In *Mechatronics for Complex Products and Systems* Project Based Designs for Cyber Physical Systems Digital Twins and Other Emerging Technologies distinguished researcher Dr Zhuming Bi delivers an expert discussion of real world mechatronics skills that students will need in their engineering careers The book explains the characteristics and innovation principles underlying mechatronic systems including modularization adaptability predictability sustainability and concurrent engineering A mechatronic system is decomposed into a set of mechatronic functional modules such as power systems actuating systems sensing systems systems of signal conditioning and processing and control systems The author also offers A thorough introduction from classic integration of mechanical electronic and electrical systems to more complex products and systems including cyber physical systems robotics human robot interactions digital twins and Internet of Things applications Insightful project assignments that help reinforce a practical understanding of a learning subject Practical discussions of real world engineering problems Comprehensive guidance on how to select the right type of sensors motors and controllers for a variety of mechatronic functional modules Perfect for advanced undergraduate and graduate students of mechatronics *Mechatronics for Complex Products and Systems* will also benefit professional engineers working on interdisciplinary projects enabled by digital technologies Internet of Things IoT and Artificial Intelligence AI

Applied Machine Learning for Data Science Practitioners Vidya Subramanian, 2025-04-29 A single volume reference on data science techniques for evaluating and solving business problems using Applied Machine Learning ML *Applied Machine Learning for Data Science Practitioners* offers a practical step by step guide to building end to end ML solutions for real world business challenges empowering data science practitioners to make informed decisions and select the right techniques for any use case Unlike many data science books that focus on popular algorithms and coding this book takes a holistic approach It equips you with the knowledge to evaluate a range of techniques and algorithms The book balances theoretical concepts with practical examples to illustrate key concepts derive insights and demonstrate applications In addition to code snippets and reviewing output the book provides guidance on interpreting results This book is an essential resource if you are looking to elevate your understanding of ML and your technical capabilities combining theoretical and practical coding examples A basic understanding of using data to solve business problems high school level math and statistics and basic Python coding skills are assumed Written by a recognized data science expert *Applied Machine Learning for Data Science Practitioners* covers essential topics including Data Science Fundamentals that provide you with an overview of core concepts laying the foundation for understanding ML Data Preparation covers the process of framing ML problems and preparing data and features for modeling ML Problem Solving introduces you to a range of ML algorithms including Regression Classification Ranking Clustering Patterns Time Series and Anomaly Detection Model Optimization

explores frameworks decision trees and ensemble methods to enhance performance and guide the selection of the most effective model ML Ethics addresses ethical considerations including fairness accountability transparency and ethics Model Deployment and Monitoring focuses on production deployment performance monitoring and adapting to model drift

Handbook of HydroInformatics Saeid Eslamian, Faezeh Eslamian, 2022-11-30 Classic Soft Computing Techniques is the first volume of the three in the Handbook of HydroInformatics series Through this comprehensive 34 chapters work the contributors explore the difference between traditional computing also known as hard computing and soft computing which is based on the importance given to issues like precision certainty and rigor The chapters go on to define fundamentally classic soft computing techniques such as Artificial Neural Network Fuzzy Logic Genetic Algorithm Supporting Vector Machine Ant Colony Based Simulation Bat Algorithm Decision Tree Algorithm Firefly Algorithm Fish Habitat Analysis Game Theory Hybrid Cuckoo Harmony Search Algorithm Honey Bee Mating Optimization Imperialist Competitive Algorithm Relevance Vector Machine etc It is a fully comprehensive handbook providing all the information needed around classic soft computing techniques This volume is a true interdisciplinary work and the audience includes postgraduates and early career researchers interested in Computer Science Mathematical Science Applied Science Earth and Geoscience Geography Civil Engineering Engineering Water Science Atmospheric Science Social Science Environment Science Natural Resources and Chemical Engineering Key insights from global contributors in the fields of data management research climate change and resilience insufficient data problem etc Offers applied examples and case studies in each chapter providing the reader with real world scenarios for comparison Introduces classic soft computing techniques necessary for a range of disciplines

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