

Advances in Data Analysis and Classification

THEORY, METHODS, AND APPLICATIONS IN DATA SCIENCE

Special Issue: Model-Based Clustering and Classification-Part 1

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Advances In Data Analysis Advances In Data Analysis

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Advanced Data Analytics with AWS Joseph Conley ,2024-04-17 Master the Fundamentals of Data Analytics at Scale KEY FEATURES Comprehensive guide to constructing data engineering workflows spanning diverse data sources Expert techniques for transforming and visualizing data to extract actionable insights Advanced methodologies for analyzing data and employing machine learning to uncover intricate patterns DESCRIPTION Embark on a transformative journey into the realm of data analytics with AWS with this practical and incisive handbook Begin your exploration with an insightful introduction to the fundamentals of data analytics setting the stage for your AWS adventure The book then covers collecting data efficiently and effectively on AWS laying the groundwork for insightful analysis It will dive deep into processing data uncovering invaluable techniques to harness the full potential of your datasets The book will equip you with advanced data analysis skills unlocking the ability to discern complex patterns and insights It covers additional use cases for data analysis on AWS from predictive modeling to sentiment analysis expanding your analytical horizons The final section of the book will utilize the power of data virtualization and interaction revolutionizing the way you engage with and derive value from your data Gain valuable insights into emerging trends and technologies shaping the future of data analytics and conclude your journey with actionable next steps empowering you to continue your data analytics odyssey with confidence WHAT WILL YOU LEARN Construct streamlined data engineering workflows capable of ingesting data from diverse sources and formats Employ data transformation tools to efficiently cleanse and reshape data priming it for analysis Perform ad hoc queries for preliminary data exploration uncovering initial insights Utilize prepared datasets to craft compelling interactive data visualizations that communicate actionable insights Develop advanced machine learning and Generative AI workflows to delve into intricate aspects of complex datasets uncovering deeper insights WHO IS THIS BOOK FOR This book is ideal for aspiring data engineers analysts and data scientists seeking to deepen their understanding and practical skills in data engineering data transformation visualization and advanced analytics It is also beneficial for professionals and students looking to leverage AWS services for their data related tasks TABLE OF CONTENTS 1 Introduction to Data Analytics and AWS 2 Getting Started with AWS 3 Collecting Data with AWS 4 Processing Data on AWS 5 Descriptive Analytics on AWS 6 Advanced Data Analysis on AWS 7 Additional Use Cases for Data Analysis 8 Data Visualization and Interaction on AWS 9 The Future of Data Analytics 10 Conclusion and Next Steps Index

Advanced Perl Techniques for Bioinformatics: Optimizing Data Analysis and Computational Biology Adam Jones,2025-01-03 *Advanced Perl Techniques for Bioinformatics: Optimizing Data Analysis and Computational Biology* is an essential resource designed to equip researchers professionals and students with the Perl programming skills required to tackle the computational challenges of modern biology Covering fundamental to advanced techniques this book provides a detailed exploration of how Perl can be employed in the analysis of DNA and RNA protein sequences and genomic data as well as in systems biology and bioinformatics algorithms Through practical examples

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management and lifestyles and are becoming disruptive technologies for healthcare e commerce and web services However many fundamental technological and managerial issues for developing and applying intelligent big data analytics in these fields have yet to be addressed Managerial Perspectives on Intelligent Big Data Analytics is a collection of innovative research that discusses the integration and application of artificial intelligence business intelligence digital transformation and intelligent big data analytics from a perspective of computing service and management While highlighting topics including e commerce machine learning and fuzzy logic this book is ideally designed for students government officials data scientists managers consultants analysts IT specialists academicians researchers and industry professionals in fields that include big data artificial intelligence computing and commerce Introduction R Programming Professional Level CPA John Kimani, Dr. James Scott ,2023-07-16 Introduction to R Programming Data Manipulation and Cleaning Data Visualization Statistical Analysis in R Introduction to Machine Learning Concepts and Techniques Advanced Data Manipulation and Analysis Customizing Visualizations with Themes and Layouts Collaborative Research and Reproducible Analysis

StarBriefs 2001 ,2012-12-06 This compilation probably looks like one of the craziest things a human being could spend his or her time on Yet nobody would wonder at someone taking a short walk every day after twenty five years that person would have covered a surprisingly long distance This is exactly the story behind this list which appeared first as a few pages within the directory StarGuides or whatever name it had at that time and as a distinct sister publication since 1990 The idea behind this dictionary is to offer astronomers and related space scientists practical assistance in decoding the numerous abbreviations acronyms contractions and symbols which they might encounter in all aspects of the vast range of their professional activities including traveling Perhaps it is a bit paradoxical but if scientists quickly grasp the meaning of an acronym solely in their own specific discipline they will probably encounter more difficulties when dealing with adjacent fields It is for this purpose that this dictionary might be most often used Scientists might also refer to this compilation in order to avoid identifying a project by an acronym which already has too many meanings or confused definitions

Mastering Office Software with Innovative Projects Pasquale De Marco,2025-07-14 In a rapidly evolving digital landscape mastering office software is no longer a luxury but a necessity Mastering Office Software with Innovative Projects is the ultimate guide for individuals and professionals seeking to elevate their skills and unlock the full potential of Microsoft Office This comprehensive book takes a groundbreaking approach shunning traditional software tutorials in favor of engaging projects that simulate real world scenarios Embark on a transformative journey as you delve into a series of hands on activities that span various industries and disciplines From analyzing data and creating dynamic visualizations in Excel to crafting compelling presentations in PowerPoint and designing professional publications in Publisher this book offers a holistic approach to mastering Office software With Mastering Office Software with Innovative Projects you ll not only acquire proficiency in the core Office applications Excel Word PowerPoint Outlook Access Publisher OneNote and Office 365

but also cultivate critical thinking problem solving and creative abilities Each project is meticulously designed to challenge your skills and push you beyond your comfort zone fostering a deeper understanding of how to leverage these tools to solve complex problems and drive innovation Moreover this book delves into the collaborative and cloud based capabilities of Office 365 empowering you to seamlessly collaborate with colleagues access your files from anywhere and harness the latest cloud based solutions to enhance your productivity Written in a clear and engaging style Mastering Office Software with Innovative Projects is the perfect companion for both beginners and experienced users seeking to elevate their skills Whether you re a student a professional or an entrepreneur this book will provide you with the knowledge and confidence to tackle any project or challenge that comes your way Join the ranks of those who have mastered office software and unlock your true potential Mastering Office Software with Innovative Projects is your key to success in the digital age If you like this book write a review **Advanced Data Analytics in Health** Philippe J. Giabbanelli,Vijay K. Mago,Elpiniki I.

Papageorgiou,2018-04-20 This book introduces readers to the methods types of data and scale of analysis used in the context of health The challenges of working with big data are explored throughout the book while the benefits are also emphasized through the discoveries made possible by linking large datasets Methods include thorough case studies from statistics as well as the newest facets of data analytics data visualization modeling and simulation and machine learning The diversity of datasets is illustrated through chapters on networked data image processing and text in addition to typical structured numerical datasets While the methods types of data and scale have been individually covered elsewhere by bringing them all together under one umbrella the book highlights synergies while also helping scholars fluidly switch between tools as needed New challenges and emerging frontiers are also discussed helping scholars grasp how methods will need to change in response to the latest challenges in health *Progress in Artificial Intelligence* Goreti Marreiros,Francisco S. Melo,Nuno

Lau,Henrique Lopes Cardoso,Luís Paulo Reis,2021-09-07 This book constitutes the refereed proceedings of the 20th EPIA Conference on Artificial Intelligence EPIA 2021 held virtually in September 2021 The 62 full papers and 6 short papers presented were carefully reviewed and selected from a total of 108 submissions The papers are organized in the following topical sections artificial intelligence and IoT in agriculture artificial intelligence and law artificial intelligence in medicine artificial intelligence in power and energy systems artificial intelligence in transportation systems artificial life and evolutionary algorithms ambient intelligence and affective environments general AI intelligent robotics knowledge discovery and business intelligence multi agent systems theory and applications and text mining and applications Generative AI

Courseware Fabienne Mouris,2025-03-03 The course is mainly practical applying generative AI prompt engineering in action activities where you make prompts and learn best practices on Generative AI while doing Gain a comprehensive understanding of Generative AI and its capabilities Develop critical thinking skills to evaluate the potential of Generative AI in different business use cases Understanding of the architecture behind the model Master the skill of prompt engineering

for effective interaction with Generative AI Learn how to integrate Generative AI into existing workflows Understand the limitations and risks associated with Generative AI Individuals who need a basic understanding Generative AI Professionals who want to learn the potential and pitfalls of Generative AI and how to deal with it Business Analyst The course is mainly practical with interactive activities where you make prompts and learn by doing You will also get feedback and guidance from experienced instructors and peers By the end of the course you will be able to Gain a comprehensive understanding of Generative AI and its capabilities Develop critical thinking skills to evaluate the potential of Generative AI in different business use cases Master the skill of prompt engineering for effective interaction with Generative AI Learn how to integrate Generative AI into existing workflows Understand the limitations and risks associated with Generative AI The course is suitable for anyone who needs a basic understanding of Generative AI such as Professionals who want to learn the potential and pitfalls of Generative AI and how to deal with them Business analysts marketers content creators educators researchers and other roles that can benefit from using Generative AI Students who want to explore the field of Generative AI and its applications The course prepares you for the EDF Certified Generative AI Ambassador exam which is a certification program offered by the Effective Data Foundation EDF and Van Haren Certify By passing this exam you will become a certified Generative AI Ambassador and gain a competitive edge in your field

Advances in Conceptual Modeling Silvana Castano, Panos Vassiliadis, Laks Lakshmanan, Mong Li Lee, 2012-10-14 This book constitutes the refereed proceedings of workshops held at the 31st International Conference on Conceptual Modeling ER 2012 in Florence Italy in October 2012 The 32 revised papers presented together with 6 demonstrations were carefully reviewed and selected from 84 submissions The papers are organized in sections on the workshops CMS 2012 EDCM NoCoDa MODIC MORE BI RIGIM SeCoGIS and WISM The workshops cover different conceptual modeling topics from requirements goal and service modeling to evolution and change management to non conventional data access and they span a wide range of domains including Web information systems geographical information systems business intelligence data intensive computing

Advance Data from Vital and Health Statistics, 1995 *Neurosurgery's Frontline Role in Gliomas Treatment* Daniele Armocida, Diego Garbossa, Maurizio Salvati, 2025-05-31 Gliomas are an incurable disease of the central nervous system In recent years

important milestones have been achieved in understanding the pathogenetic and molecular mechanisms of gliomas with numerous oncological molecular and neuroradiological studies The first important therapeutic step however remains surgery The neurosurgeon is almost always the first specialist who poses the diagnostic suspicion and takes charge of the patient and a radical and safe surgical intervention greatly influences the patient's prognosis The different surgical approach strategies new technologies and trends are summarised in this volume Edited by a leading expert in the field and authored by a team of recognised specialists this book addresses all the most important updates on the understanding of gliomas analyses them from all perspectives and studies their neurosurgical aspect It will be a valuable resource for neurosurgeons medical

oncologists neuro oncologists and neurologists *ADVANCES IN EMERGING COMPUTING TECHNOLOGIES* Shaliesh S ,Shilpa Shaju,Su-ada M,Neha Rashi,Farhan Muhammed,Neethu A S,Sreelekshman S,Nihal Aboobaker,Vishnu Mohan C ,Bevin Benet,Jishnu M,Neha Chacko,Viju Chacko,Abhinand P, Arun Raj,Adithya Dinesh,Regitha M R,S.Suganthi,T.Sree Kala ,Anakha Mohan,Aswathy A L,Joseph James,Akhil S, Lima Johnson K,David Peter S ,Nisha Sanjay,Sasikumaran Sreedharan,Anagha Rajeev,Anu T S,Thasneem M H,2023-08-19 PUBLISHED BY CO TEXT PUBLISHERS IN ASSOCIATION WITH DEPARTMENT OF COMPUTER SCIENCE SACRED HEART COLLEGE AUTONOMOUS THEVARA KOCHI 682013 KERALA INDIA

Essentials of Data Analysis Agasti Khatri,2025-02-20 Essentials of Data Analysis is an indispensable guide that navigates readers through the world of data driven decision making This book presents essential concepts techniques and tools in an accessible and user friendly manner It serves as a trusted companion for both beginners and professionals in their data analysis journey We start by laying a solid foundation in data analysis principles providing a comprehensive understanding of key concepts and methodologies The book delves into practical techniques for data manipulation visualization and exploration equipping readers with the skills to extract actionable insights from raw data Real world examples case studies and hands on exercises bring abstract concepts to life We emphasize the ethical and responsible use of data guiding readers through ethical considerations privacy concerns and regulatory requirements This fosters a culture of ethical awareness and accountability Additionally we explore emerging trends and technologies shaping the future of data analysis such as artificial intelligence machine learning augmented analytics and edge computing By adopting innovative techniques readers can drive meaningful change within their organizations Essentials of Data Analysis is a valuable resource for enhancing analytical skills advancing careers and understanding the role of data in decision making *Applications and Developments in Semantic Process Mining* Okoye, Kingsley,2020-04-10 As technology becomes increasingly intelligent various factors within the field of data science are seeing significant transformation Process analysis is one area that is undergoing substantial development due to the implementation of semantic reasoning and web technologies The congruence of these two systems has created various applications and developments in data processing and analysis across several professional fields Applications and Developments in Semantic Process Mining is an essential reference source that discusses the improvement of process mining algorithms through the implementation of semantic modeling and representation Featuring research on topics such as domain ontologies fuzzy modeling and information extraction the book takes into account the different stages of process mining and its application in real time and then expounds the classical process mining techniques to semantical preparation of the extracted models for further analysis and querying at a more abstract level The book provides a wide ranging idea of the application and development of semantic process mining that is expected to be beneficial and used by professionals software and data engineers software developers IT experts business owners and entrepreneurs and process analysts Advances in Business ICT: New Ideas from Ongoing Research Tomasz

Pełech-Pilichowski, Maria Mach-Król, Celina M. Olszak, 2016-11-01 This book discusses the effective use of modern ICT solutions for business needs including the efficient use of IT resources decision support systems business intelligence data mining and advanced data processing algorithms as well as the processing of large datasets inter alia social networking such as Twitter and Facebook etc The ability to generate record and process qualitative and quantitative data including in the area of big data the Internet of Things IoT and cloud computing offers a real prospect of significant improvements for business as well as the operation of a company within Industry 4 0 The book presents new ideas approaches solutions and algorithms in the area of knowledge representation management and processing quantitative and qualitative data processing including sentiment analysis problems of simulation performance and the use of advanced signal processing to increase the speed of computation The solutions presented are also aimed at the effective use of business process modeling and notation BPMN business process semantization and investment project portfolio selection It is a valuable resource for researchers data analysts entrepreneurs and IT professionals alike and the research findings presented make it possible to reduce costs increase the accuracy of investment optimize resources and streamline operations and marketing

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