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Twitter Data Analytics

Twitter Data Analytics Springerbriefs In Computer Science

**Lourdes Martínez-Villaseñor, Oscar
Herrera-Alcántara, Hiram Ponce, Félix
A. Castro-Espinoza**

Twitter Data Analytics Springerbriefs In Computer Science:

Twitter Data Analytics Shamanth Kumar, Fred Morstatter, Huan Liu, 2013-11-11 This brief provides methods for harnessing Twitter data to discover solutions to complex inquiries The brief introduces the process of collecting data through Twitter's APIs and offers strategies for curating large datasets The text gives examples of Twitter data with real world examples the present challenges and complexities of building visual analytic tools and the best strategies to address these issues Examples demonstrate how powerful measures can be computed using various Twitter data sources Due to its openness in sharing data Twitter is a prime example of social media in which researchers can verify their hypotheses and practitioners can mine interesting patterns and build their own applications This brief is designed to provide researchers practitioners project managers as well as graduate students with an entry point to jump start their Twitter endeavors It also serves as a convenient reference for readers seasoned in Twitter data analysis

Twitter: A Digital Socioscope Michael W. Macy, Yelena Mejova, Ingmar Weber, 2015-05-05 A resource for social scientists on how Twitter data can be used to study individual behavior and social interaction

Web Information Systems Engineering -- WISE 2014 Boualem Benatallah, Azer Bestavros, Yannis Manolopoulos, Athena Vakali, Yanchun Zhang, 2014-09-11 This book constitutes the proceedings of the 15th International Conference on Web Information Systems Engineering WISE 2014 held in Thessaloniki Greece in October 2014 The 52 full papers 16 short and 14 poster papers presented in the two volume proceedings LNCS 8786 and 8787 were carefully reviewed and selected from 196 submissions They are organized in topical sections named Web mining modeling and classification Web querying and searching Web recommendation and personalization semantic Web social online networks software architectures and platforms Web technologies and frameworks Web innovation and applications and challenge

Working with Network Data James Bagrow, Yong-Yeol Ahn, 2024-05-31 Drawing examples from real world networks this essential book traces the methods behind network analysis and explains how network data is first gathered then processed and interpreted The text will equip you with a toolbox of diverse methods and data modelling approaches allowing you to quickly start making your own calculations on a huge variety of networked systems This book sets you up to succeed addressing the questions of what you need to know and what to do with it when beginning to work with network data The hands on approach adopted throughout means that beginners quickly become capable practitioners guided by a wealth of interesting examples that demonstrate key concepts Exercises using real world data extend and deepen your understanding and develop effective working patterns in network calculations and analysis Suitable for both graduate students and researchers across a range of disciplines this novel text provides a fast track to network data expertise

Advances in Databases and Information Systems Jérôme Darmont, Boris Novikov, Robert Wrembel, 2020-08-17 The chapter An Efficient Index for Reachability Queries in Public Transport Networks is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

Big Data Analytics: A Management Perspective

Francesco Corea,2016-05-24 This book is about innovation big data and data science seen from a business perspective Big data is a buzzword nowadays and there is a growing necessity within practitioners to understand better the phenomenon starting from a clear stated definition This book aims to be a starting reading for executives who want and need to keep the pace with the technological breakthrough introduced by new analytical techniques and piles of data Common myths about big data will be explained and a series of different strategic approaches will be provided By browsing the book it will be possible to learn how to implement a big data strategy and how to use a maturity framework to monitor the progress of the data science team as well as how to move forward from one stage to the next Crucial challenges related to big data will be discussed where some of them are more general such as ethics privacy and ownership while others concern more specific business situations e g initial public offering growth strategies etc The important matter of selecting the right skills and people for an effective team will be extensively explained and practical ways to recognize them and understanding their personalities will be provided Finally few relevant technological future trends will be acknowledged i e IoT Artificial intelligence blockchain etc especially for their close relation with the increasing amount of data and our ability to analyse them faster and more effectively

Handbook of Research on Big Data Storage and Visualization Techniques Segall,

Richard S.,Cook, Jeffrey S.,2018-01-05 The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries Challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields Featuring coverage on a broad range of topics such as architecture patterns programing systems and computational energy this publication is geared towards professionals researchers and students seeking current research and application topics on the subject

Advances in Computational Intelligence Lourdes Martínez-Villaseñor,Oscar

Herrera-Alcántara,Hiram Ponce,Félix A. Castro-Espinoza,2020-10-07 The two volume set LNAI 12468 and 12469 constitutes the proceedings of the 19th Mexican International Conference on Artificial Intelligence MICA I 2020 held in Mexico City Mexico in October 2020 The total of 77 papers presented in these two volumes was carefully reviewed and selected from 186 submissions The contributions are organized in topical as follows Part I machine and deep learning evolutionary and metaheuristic algorithms and soft computing Part II natural language processing image processing and pattern recognition and intelligent applications and robotics

Emerging Technologies in Data Mining and Information Security About

Ella Hassanien,Siddhartha Bhattacharyya,Satyajit Chakrabati,Abhishek Bhattacharya,Soumi Dutta,2021-05-04 This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and

Information Security IEMIS 2020 held at the University of Engineering Management Kolkata India during July 2020 The book is organized in three volumes and includes high quality research work by academicians and industrial experts in the field of computing and communication including full length papers research in progress papers and case studies related to all the areas of data mining machine learning Internet of things IoT and information security *Generative Methods for Social Media Analysis* Stan Matwin, Aristides Milios, Paweł Prałat, Amilcar Soares, François Théberge, 2023-07-05 This book provides a broad overview of the state of the art of the research in generative methods for the analysis of social media data It especially includes two important aspects that currently gain importance in mining and modelling social media dynamics and networks The book is divided into five chapters and provides an extensive bibliography consisting of more than 250 papers After a quick introduction and survey of the book in the first chapter chapter 2 is devoted to the discussion of data models and ontologies for social network analysis Next chapter 3 deals with text generation and generative text models and the dangers they pose to social media and society at large Chapter 4 then focuses on topic modelling and sentiment analysis in the context of social networks Finally Chapter 5 presents graph theory tools and approaches to mine and model social networks Throughout the book open problems highlighting potential future directions are clearly identified The book aims at researchers and graduate students in social media analysis information retrieval and machine learning applications [An Introduction to Data](#) Francesco Corea, 2018-11-27 This book reflects the author's years of hands on experience as an academic and practitioner It is primarily intended for executives managers and practitioners who want to redefine the way they think about artificial intelligence AI and other exponential technologies Accordingly the book which is structured as a collection of largely self contained articles includes both general strategic reflections and detailed sector specific information More concretely it shares insights into what it means to work with AI and how to do it more efficiently what it means to hire a data scientist and what new roles there are in the field how to use AI in specific industries such as finance or insurance how AI interacts with other technologies such as blockchain and in closing a review of the use of AI in venture capital as well as a snapshot of acceleration programs for AI companies **Visual and Text Sentiment Analysis through Hierarchical Deep Learning Networks** Arindam Chaudhuri, 2019-04-06 This book presents the latest research on hierarchical deep learning for multi modal sentiment analysis Further it analyses sentiments in Twitter blogs from both textual and visual content using hierarchical deep learning networks hierarchical gated feedback recurrent neural networks HGFRNNs Several studies on deep learning have been conducted to date but most of the current methods focus on either only textual content or only visual content In contrast the proposed sentiment analysis model can be applied to any social blog dataset making the book highly beneficial for postgraduate students and researchers in deep learning and sentiment analysis The mathematical abstraction of the sentiment analysis model is presented in a very lucid manner The complete sentiments are analysed by combining text and visual prediction results The book's novelty lies in its development of innovative hierarchical recurrent

neural networks for analysing sentiments stacking of multiple recurrent layers by controlling the signal flow from upper recurrent layers to lower layers through a global gating unit evaluation of HGFRNNs with different types of recurrent units and adaptive assignment of HGFRNN layers to different timescales Considering the need to leverage large scale social multimedia content for sentiment analysis both state of the art visual and textual sentiment analysis techniques are used for joint visual textual sentiment analysis The proposed method yields promising results from Twitter datasets that include both texts and images which support the theoretical hypothesis

Twitter als Basis wissenschaftlicher Studien Fabian Pfaffenberger,2016-11-08 Dieses Buch ist eine Open Access Publikation unter einer CC BY NC 4 0 Lizenz Fabian Pfaffenberger bewertet den wissenschaftlichen Nutzen von Twitter indem er mehrere g ngige Erhebungs und Analysemethoden betrachtet Twitter ist mittlerweile eine beliebte Quelle f r Studien obwohl der Kurznachrichtendienst nur bedingt f r die Forschung geeignet ist Eine eingeschr nkte Repr sentativit t zeitlich begrenzte Datenverf gbarkeit und geringe Datenqualit t mindern den wissenschaftlichen Nutzen Dennoch r ckt Twitter aufgrund seiner gesellschaftlichen und medialen Relevanz sowie dessen Masse an frei verf gbaren Daten zunehmend in den Fokus der Wissenschaft

Mobile Data Mining Yuan Yao,Xing Su,Hanghang Tong,2018-10-31 This SpringerBrief presents a typical life cycle of mobile data mining applications including data capturing and processing which determines what data to collect how to collect these data and how to reduce the noise in the data based on smartphone sensors feature engineering which extracts and selects features to serve as the input of algorithms based on the collected and processed data model and algorithm design In particular this brief concentrates on the model and algorithm design aspect and explains three challenging requirements of mobile data mining applications energy saving personalization and real time Energy saving is a fundamental requirement of mobile applications due to the limited battery capacity of smartphones The authors explore the existing practices in the methodology level e g by designing hierarchical models for saving energy Another fundamental requirement of mobile applications is personalization Most of the existing methods tend to train generic models for all users but the authors provide existing personalized treatments for mobile applications as the behaviors may differ greatly from one user to another in many mobile applications The third requirement is real time That is the mobile application should return responses in a real time manner meanwhile balancing effectiveness and efficiency This SpringerBrief targets data mining and machine learning researchers and practitioners working in these related fields Advanced level students studying computer science and electrical engineering will also find this brief useful as a study guide

Proceedings of International Conference on Computational Intelligence, Data Science and Cloud Computing Valentina E. Balas,Aboul Ella Hassanien,Satyajit Chakrabarti,Lopa Mandal,2021-04-05 This book includes selected papers presented at International Conference on Computational Intelligence Data Science and Cloud Computing IEM ICDC 2020 organized by the Department of Information Technology Institute of Engineering Management Kolkata India during 25 27 September 2020 It presents substantial new research findings about AI

and robotics image processing and NLP cloud computing and big data analytics as well as in cyber security blockchain and IoT and various allied fields The book serves as a reference resource for researchers and practitioners in academia and industry

Cognitive Science and Health Bioinformatics Raghu B. Korrapati,Ch. Divakar,G. Lavanya Devi,2017-12-26 This book highlights the interdisciplinary study of cognition mind and behavior from an information processing perspective and describes related applications to health informatics The respective chapters address health problem solving and education decision support systems user centered interfaces and the design and use of controlled medical terminologies Reflecting cutting edge research on computational methods including theory algorithms numerical simulation error and uncertainty analysis and their applications the book offers a valuable resource for doctoral students and researchers in the fields of Computer Science and Engineering

Mining Lurkers in Online Social Networks Andrea Tagarelli,Roberto Interdonato,2018-11-09 This SpringerBrief brings order to the wealth of research studies that contribute to shape our understanding of on line social networks OSNs lurking phenomena This brief also drives the development of computational approaches that can be effectively applied to answer questions related to lurking behaviors as well as to the engagement of lurkers in OSNs All large scale online social networks OSNs are characterized by a participation inequality principle i e the crowd of an OSN does not actively contribute rather it takes on a silent role Silent users are also referred to as lurkers since they gain benefit from others information without significantly giving back to the community Nevertheless lurkers acquire knowledge from the OSN therefore a major goal is to encourage them to more actively participate Lurking behavior analysis has been long studied in social science and human computer interaction fields but it has also matured over the last few years in social network analysis and mining While the main target audience corresponds to computer network and web data scientists this brief might also help increase the visibility of the topic by bridging different closely related research fields Practitioners researchers and students interested in social networks web search data mining computational social science and human computer interaction will also find this brief useful research material

Edge Computing Resilience Yanlong Zhai,Muhammad Mudassar,Liehuang Zhu,2024-10-07 Edge computing has emerged as a powerful technology for efficiently executing tasks by pushing cloud computing capabilities to the edge of the network This approach significantly improves the quality of services of IoT applications and greatly enhances the performance of resource constraint edge devices However with the explosive growth in users and data generation low computing capability devices often struggle to meet computation demands in time posing a significant challenge to the success of edge computing These challenges include latency requirements low computational power system heterogeneity energy constraints and privacy issues To address these challenges it is critical to design robust edge computing systems This book provides a systematic and comprehensive analysis of edge computing challenges and presents resilient designs and frameworks suitable for real time edge computing applications The discussion primarily focuses on overcoming resource constraints in unstable edge computing environments

which is achieved through various concepts and technologies such as fault handling optimization and computation offloading. The book is significant to researchers in the field of edge computing especially in the context of the resource constrained paradigm IoT application execution in the edge and fog computing. The book features innovative models and frameworks for processing time critical energy aware and privacy aware applications. By reading this book researchers and professionals will gain a deeper understanding of different technologies and frameworks for edge computing and develop an appreciation for edge computing resilience. This resilience makes the edge system robust against frequent system failures for real time IoT applications. The book provides a foundation for future research in this field and is an essential read for those seeking to advance their knowledge and expertise in edge computing.

Digital Transformation, Strategic Resilience, Cyber Security and Risk Management Simon Grima, Eleftherios I. Thalassinos, GrațIELA-Georgiana Noja, Theodore V. Stamataopoulos, Tatjana Vasiljeva, Tatjana Volkova, 2023-09-28

Digitization of economic and management processes allows for the delivery of new value and higher efficiency in the implementation of strategic goals. This is due to the inclusion of digital technologies in the existing rules of functioning among partners involved in the flow of resources and from their readiness for digital transformation. A significant challenge in practical organizational and scientific terms is to understand the opportunities and threats resulting from digital transformation to identify optimal strategies for the development of business entities in new economic and management conditions taking care to adopt collateral and proper management of new risks. Addressing this challenge to the readers contributors indicate the latest theoretical advances and practical examples in FinTech. The Internet of Things and AI among others. This results in a synthetic look at the complex digital transformation processes of the modern world both in terms of the underlying causes and the vast effects of the transformations and digitization of social and economic life. Contemporary Studies in Economic and Financial Analysis publishes a series of current and relevant themed volumes within the fields of economics and finance.

Low Resource Social Media Text Mining Shriphani Palakodety, Ashiqur R. KhudaBukhsh, Guha Jayachandran, 2021-10-01

This book focuses on methods that are unsupervised or require minimal supervision vital in the low resource domain. Over the past few years rapid growth in Internet access across the globe has resulted in an explosion in user generated text content in social media platforms. This effect is significantly pronounced in linguistically diverse areas of the world like South Asia where over 400 million people regularly access social media platforms. YouTube, Facebook and Twitter report a monthly active user base in excess of 200 million from this region. Natural language processing NLP research and publicly available resources such as models and corpora prioritize Web content authored primarily by a Western user base. Such content is authored in English by a user base fluent in the language and can be processed by a broad range of off the shelf NLP tools. In contrast text from linguistically diverse regions features high levels of multilinguality code switching and varied language skill levels. Resources like corpora and models are also scarce. Due to these factors newer methods are needed to process such text. This book is designed for

NLP practitioners well versed in recent advances in the field but unfamiliar with the landscape of low resource multilingual NLP The contents of this book introduce the various challenges associated with social media content quantify these issues and provide solutions and intuition When possible the methods discussed are evaluated on real world social media data sets to emphasize their robustness to the noisy nature of the social media environment On completion of the book the reader will be well versed with the complexity of text mining in multilingual low resource environments will be aware of a broad set of off the shelf tools that can be applied to various problems and will be able to conduct sophisticated analyses of such text

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web the x men and the avengers are divided on how to handle the situation the x men believe that the phoenix force will herald the rebirth of the mutant species while the avengers believe that it will bring an end to all life on earth this leads to a war between marvel s two powerful superhero factions

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