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# Twitter Data Analytics

# Twitter Data Analytics Springerbriefs In Computer Science

**Shamanth Kumar, Fred  
Morstatter, Huan Liu**



## **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

**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)

**Generative Methods for Social Media Analysis** Stan Matwin, Aristides Miliotis, Paweł Prałat, Amílcar 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

**Twitter: A Digital Socioscope** Yelena Mejova, Ingmar Weber, Michael W. Macy, 2015-05-05 How can Twitter data be used to study individual level human behavior and social interaction on a global scale This book introduces readers to the methods opportunities and challenges of using Twitter data to analyze phenomena ranging from the number of people infected by the flu to national elections to tomorrow's stock prices Each chapter written by leading domain experts in clear and accessible language takes the reader to the forefront of the newly emerging field of computational social science An introductory chapter on Twitter data analysis provides an overview of key tools and skills

and gives pointers on how to get started while the case studies demonstrate shortcomings limitations and pitfalls of Twitter data as well as its advantages The book will be an excellent resource for social science students and researchers wanting to explore the use of online data     Twitter as Data Zachary C. Steinert-Threlkeld, 2017-12-28 The rise of the internet and mobile telecommunications has created the possibility of using large datasets to understand behavior at unprecedented levels of temporal and geographic resolution Online social networks attract the most users though users of these new technologies provide their data through multiple sources e g call detail records blog posts web forums and content aggregation sites These data allow scholars to adjudicate between competing theories as well as develop new ones much as the microscope facilitated the development of the germ theory of disease Of those networks Twitter presents an ideal combination of size international reach and data accessibility that make it the preferred platform in academic studies Acquiring cleaning and analyzing these data however require new tools and processes This Element introduces these methods to social scientists and provides scripts and examples for downloading processing and analyzing Twitter data

*Data Analytics for Social Microblogging Platforms* Soumi Dutta, Asit Kumar Das, Saptarshi Ghosh, Debabrata Samanta, 2022-11-04 Data Analysis for Social Microblogging Platforms explores the nature of microblog datasets also covering the larger field which focuses on information data and knowledge in the context of natural language processing The book investigates a range of significant computational techniques which enable data and computer scientists to recognize patterns in these vast datasets including machine learning data mining algorithms rough set and fuzzy set theory evolutionary computations combinatorial pattern matching clustering summarization and classification Chapters focus on basic online micro blogging data analysis research methodologies community detection summarization application development performance evaluation and their applications in big data Investigates various methodologies and algorithms for data summarization clustering and classification Covers both theory and practical applications from around the world across all related disciplines of Intelligent Information Filtering and Organization Systems Explores different challenges and issues related to spam filtering attribute selection and classification for large datasets     *Mining the Social Web* Matthew Russell, 2011-01-21 Facebook Twitter and LinkedIn generate a tremendous amount of valuable social data but how can you find out who's making connections with social media what they're talking about or where they're located This concise and practical book shows you how to answer these questions and more You'll learn how to combine social web data analysis techniques and visualization to help you find what you've been looking for in the social haystack as well as useful information you didn't know existed Each standalone chapter introduces techniques for mining data in different areas of the social Web including blogs and email All you need to get started is a programming background and a willingness to learn basic Python tools Get a straightforward synopsis of the social web landscape Use adaptable scripts on GitHub to harvest data from social network APIs such as Twitter Facebook and LinkedIn Learn how to employ easy to use Python tools to slice and dice the data

you collect Explore social connections in microformats with the XHTML Friends Network Apply advanced mining techniques such as TF IDF cosine similarity collocation analysis document summarization and clique detection Build interactive visualizations with web technologies based upon HTML5 and JavaScript toolkits Let Matthew Russell serve as your guide to working with social data sets old email blogs and new Twitter LinkedIn Facebook Mining the Social Web is a natural successor to Programming Collective Intelligence a practical hands on approach to hacking on data from the social Web with Python Jeff Hammerbacher Chief Scientist Cloudera A rich compact useful practical introduction to a galaxy of tools techniques and theories for exploring structured and unstructured data Alex Martelli Senior Staff Engineer Google *Movie Analytics* Dominique Haughton, Mark-David McLaughlin, Kevin Mentzer, Changan Zhang, 2015-10-05 Movies will never be the same after you learn how to analyze movie data including key data mining text mining and social network analytics concepts These techniques may then be used in endless other contexts In the movie application this topic opens a lively discussion on the current developments in big data from a data science perspective This book is geared to applied researchers and practitioners and is meant to be practical The reader will take a hands on approach running text mining and social network analyses with software packages covered in the book These include R SAS Knime Pajek and Gephi The nitty gritty of how to build datasets needed for the various analyses will be discussed as well This includes how to extract suitable Twitter data and create a co starring network from the IMDB database given memory constraints The authors also guide the reader through an analysis of movie attendance data via a realistic dataset from France **Mining the Social Web** Matthew A. Russell, Mikhail Klassen, 2018-12-04 Mine the rich data tucked away in popular social websites such as Twitter Facebook LinkedIn and Instagram With the third edition of this popular guide data scientists analysts and programmers will learn how to glean insights from social media including who's connecting with whom what they're talking about and where they're located using Python code examples Jupyter notebooks or Docker containers In part one each standalone chapter focuses on one aspect of the social landscape including each of the major social sites as well as web pages blogs and feeds mailboxes GitHub and a newly added chapter covering Instagram Part two provides a cookbook with two dozen bite size recipes for solving particular issues with Twitter Get a straightforward synopsis of the social web landscape Use Docker to easily run each chapter's example code packaged as a Jupyter notebook Adapt and contribute to the code's open source GitHub repository Learn how to employ best in class Python 3 tools to slice and dice the data you collect Apply advanced mining techniques such as TFIDF cosine similarity collocation analysis clique detection and image recognition Build beautiful data visualizations with Python and JavaScript toolkits **Event-Driven Surveillance** Kerstin Denecke, 2012-02-23 The Web has become a rich source of personal information in the last few years People twitter blog and chat online Current feelings experiences or latest news are posted For instance first hints to disease outbreaks customer preferences or political changes could be identified with this data Surveillance or early warning systems enable such detection of changes and support

humans in getting information on changing situations However the variety of data that could be considered for surveillance is immense ranging from sensor measured values to collected counts and information extracted from natural language documents Denecke s objective is to introduce the multiple possibilities and facets of surveillance and its applications She first introduces the task of surveillance and provides an overview on surveillance in various domains Next the various information sources that are available and could already be used by surveillance systems are summarized In the main part of the book her focus is on unstructured data as a source for surveillance An overview on existing methods as well as methods to be developed in order to process this kind of data with respect to surveillance is presented As an example application she introduces disease surveillance using Web 2 0 including corresponding methods and challenges to be addressed The book closes with remarks on new possibilities for surveillance gained by recent developments of the Internet and mobile communication and with an outline of future challenges

**Mining the Social Web** Matthew A. Russell,2013-10-04 How can you tap into the wealth of social web data to discover who s making connections with whom what they re talking about and where they re located With this expanded and thoroughly revised edition you ll learn how to acquire analyze and summarize data from all corners of the social web including Facebook Twitter LinkedIn Google GitHub email websites and blogs Employ the Natural Language Toolkit NetworkX and other scientific computing tools to mine popular social web sites Apply advanced text mining techniques such as clustering and TF IDF to extract meaning from human language data Bootstrap interest graphs from GitHub by discovering affinities among people programming languages and coding projects Build interactive visualizations with D3 js an extraordinarily flexible HTML5 and JavaScript toolkit Take advantage of more than two dozen Twitter recipes presented in O Reilly s popular problem solution discussion cookbook format The example code for this unique data science book is maintained in a public GitHub repository It s designed to be easily accessible through a turnkey virtual machine that facilitates interactive learning with an easy to use collection of IPython Notebooks

*Twitter Data Analytics* Axel Bruns,Katrin Weller,2014 **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

#### **Computer-Assisted Content Analysis of Twitter Data**

Katrin Weller,Axel Bruns,Jean Burgess,Merja Mahrt,Cornelius Puschmann,2014 Abstract Content analysis provides a useful and multifaceted methodological framework for Twitter analysis CAQDAS tools support the structuring of textual data by enabling categorising and coding Depending on the research objective it may be appropriate to choose a mixed methods approach that combines quantitative and qualitative elements of analysis and plays out their respective advantages to the greatest possible extent while minimising their shortcomings In this chapter we will discuss CAQDAS speech act analysis of tweets as an example of software assisted content analysis We start with some elementary thoughts on the challenges of the collection and evaluation of Twitter data before we give a brief description of the potentials and limitations of using the software QDA Miner as one typical example for possible analysis programmes Our focus will lie on analytical features that can be particularly helpful in speech act analysis of tweets

#### **Big Data in Healthcare** Pouria Amirian,Trudie Lang,Francois

van Loggerenberg,2017-09-18 This book reviews a number of issues including Why data generated from POC machines are considered as Big Data What are the challenges in storing managing extracting knowledge from data from POC devices Why is it inefficient to use traditional data analysis with big data What are the solutions for the mentioned issues and challenges What type of analytics skills are required in health care What big data technologies and tools can be used efficiently with data generated from POC devices This book shows how it is feasible to store vast numbers of anonymous data and ask highly specific questions that can be performed in real time to give precise and meaningful evidence to guide public health policy

**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

[Social Media Data Mining and Analytics](#) Gabor Szabo,Gungor Polatkan,P. Oscar Boykin,Antonios Chalkiopoulos,2018-09-19 Harness the power of social media to predict customer behavior and improve sales Social media is the biggest source of Big Data Because of this 90% of Fortune 500 companies are investing in Big Data initiatives that will help them predict consumer behavior to produce better sales results Social Media Data Mining and Analytics shows analysts how to use sophisticated techniques to mine social media data obtaining the information they need to generate amazing results for their businesses Social Media Data Mining and Analytics isn't just another book on the business case for social media Rather this book provides hands on examples for applying state of the art tools and technologies to mine social media examples include Twitter Wikipedia Stack Exchange LiveJournal movie reviews and other rich data sources In it you will learn The four key characteristics of online services users social networks actions and content The full data discovery lifecycle data extraction storage analysis and visualization How to work with code and extract data to create solutions How to use Big Data to make accurate customer predictions How to personalize the social media experience using machine learning Using the techniques the authors detail will provide organizations the competitive advantage they need to harness the rich data available from social media platforms

[Big Data Analytics](#) Mrutyunjaya Panda,Ajith Abraham,Aboul Ella Hassanien,2018-12-12 Social networking has increased drastically in recent years resulting in an increased amount of data being created daily Furthermore diversity of issues and complexity of the social networks pose a challenge in social network mining Traditional algorithm software cannot deal with such complex and vast amounts of data necessitating the development of novel analytic approaches and tools This reference work deals with social network aspects of big data analytics It covers theory practices and challenges in social networking The book spans numerous disciplines like neural networking deep learning artificial intelligence visualization e learning in higher education e healthcare security and intrusion detection

[Topic Detection and Classification in Social Networks](#) Dimitrios Milioris,2017-10-05 This book provides a novel method for topic detection and classification in social networks The book addresses several research and technical challenges that are currently being investigated by the research community from the analysis of relations and communications between members of a community to quality authority relevance and timeliness of the content traffic prediction based on media consumption spam detection to security privacy and protection of personal information Furthermore the book discusses innovative techniques to address those challenges and provides novel solutions based on information theory sequence analysis and combinatorics which are applied on real data obtained from Twitter



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