

The Evolution of Sentiment Analysis - A Review of Research Topics, Venues, and Top Cited Papers

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Abstract

Sentiment analysis is one of the fastest growing research areas in computer science, making it challenging to keep track of all the activities in the area. We present a computer-assisted literature review, where we utilize both text mining and qualitative coding, and analyze 6,996 papers from Scopus. We find that the roots of sentiment analysis are in the studies on public opinion analysis at the beginning of 20th century and in the text subjectivity analysis performed by the computational linguistics community in 1990's. However, the outbreak of computer-based sentiment analysis only occurred with the availability of subjective texts on the Web. Consequently, 99% of the papers have been published after 2004. Sentiment analysis papers are scattered to multiple publication venues, and the combined number of papers in the top-15 venues only represent ca. 30% of the papers in total. We present the top-20 cited papers from Google Scholar and Scopus and a taxonomy of research topics. In recent years, sentiment analysis has shifted from analyzing online product reviews to social media texts from Twitter and Facebook. Many topics beyond product reviews like stock markets, elections, disasters, medicine, software engineering and cyberbullying extend the utilization of sentiment analysis¹.

Keywords: sentiment analysis, opinion mining, bibliometric study, text mining, literature review, topic modelling, latent dirichlet allocation, qualitative analysis

1 Introduction

"The pen is mightier than the sword" proposes that free communication (particularly written language) is a more effective tool than direct violence [1]. Sentiment analysis is a series of methods, techniques, and tools about detecting and extracting subjective information, such as opinion and attitudes, from language [2]. Traditionally, sentiment analysis has been about opinion polarity, i.e., whether someone has positive, neutral, or negative opinion towards something [3]. The object of sentiment analysis has typically been a product or a service whose review has been made public on the Internet. This might explain why sentiment analysis and opinion mining are often used as synonyms, although, we think it is more accurate to view sentiments as emotionally loaded opinions.

The interest on other's opinion is probably almost as old as verbal communication itself. Historically, leaders have been intrigued with the opinions of their subordinates to either prepare for opposition or to increase their popularity. Examples of trying to detect internal dissent can be found already at Ancient Greece's times [4]. Ancient works in East and West mingle with these subjects. *"The Art of War"* has a chapter on espionage that deals with spy recruiting and betrayal, while in the beginning of *"Iliad"* the leader of Greeks Agamemnon tries to gauge the fighting spirit of his men. Voting as a method to measure public opinion on policy has its roots in the city state of Athens in the 5th century BCE [5]. Efforts in capturing public opinion by quantifying and measuring it from questionnaires have

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(<https://www.sciencedirect.com/science/article/pii/S1574013717346669>)

Topics For Text Analysis Papers

**Gunnar Rimmel, Güler Aras, Diogenis
Baboukardos, Joanna
Krasodomska, Christian Nielsen, Frank
Schiemann**

Topics For Text Analysis Papers:

Handbook of Research on Opinion Mining and Text Analytics on Literary Works and Social Media Keikhosrokiani, Pantea, Pourya Asl, Moussa, 2022-02-18 Opinion mining and text analytics are used widely across numerous disciplines and fields in today's society to provide insight into people's thoughts, feelings, and stances. This data is incredibly valuable and can be utilized for a range of purposes. As such, an in-depth look into how opinion mining and text analytics correlate with social media and literature is necessary to better understand audiences. The *Handbook of Research on Opinion Mining and Text Analytics on Literary Works and Social Media* introduces the use of artificial intelligence and big data analytics applied to opinion mining and text analytics on literary works and social media. It also focuses on theories, methods, and approaches in which data analysis techniques can be used to analyze data to provide a meaningful pattern. Covering a wide range of topics such as sentiment analysis and stance detection, this publication is ideal for lecturers, researchers, academicians, practitioners, and students.

Handbook of Research on the Influence and Effectiveness of Gamification in Education Bernardes, Oscar, Amorim, Vanessa, Moreira, Antonio Carrizo, 2022-05-20 Gamification is an increasingly popular technology that has been utilized across a number of fields such as business, medicine, and education. As education continues to turn toward online teaching and learning, gamification is one of many new technologies that have been proven to assist educators in providing holistic and effective instruction. Additional research is required to ensure this technology is utilized appropriately within the classroom. The *Handbook of Research on the Influence and Effectiveness of Gamification in Education* considers the importance of gamification in the current learning environment and discusses the best practices, opportunities, and challenges of this innovative technology within an educational setting. Covering a wide range of critical topics such as engagement, serious games, and escape rooms, this major reference work is essential for policymakers, academicians, administrators, scholars, researchers, practitioners, instructors, and students.

NTA UGC NET Paper 1 Topic-wise 50 Solved Papers (2019 to 2004) Disha Experts, 2020-07-04

NTA UGC NET Paper 1 Topic-wise 52 Solved Papers (2020 to 2004) 2nd Edition Disha Experts, 2021-02-04

Mining Scientific Papers: NLP-enhanced Bibliometrics Iana Atanassova, Marc Bertin, Philipp Mayr, 2019-10-09

Information Systems and Neuroscience Fred D. Davis, René Riedl, Jan vom Brocke, Pierre-Majorique Léger, Adriane B. Randolph, Gernot R. Müller-Putz, 2024-07-25 This book presents the proceedings of the NeuroIS Retreat 2023, May 30–June 1, Vienna, Austria, reporting on topics at the intersection of information systems, IS research, neurophysiology, and the brain sciences. Readers will discover the latest findings from top scholars in the field of NeuroIS, which offer detailed insights on the neurobiology underlying IS behavior, essential methods and tools, and their applications for IS, as well as the application of neuroscience and neurophysiological theories to advance IS theory.

Chicago Style Essentials: A Handbook for Writing Research Papers, Theses, and Dissertations Erwin Yang, *Chicago Style Essentials: A Comprehensive Guide to Academic Writing* This comprehensive handbook provides an

indispensable guide to Chicago style the widely accepted standard for academic writing in the humanities and social sciences Designed to empower students and researchers alike this book offers clear and concise instructions for formatting research papers theses and dissertations according to the latest guidelines Covering a wide range of topics including Formatting Instructions for proper paper margins font sizes and headings Citations and References Comprehensive guidance on citing sources and creating bibliographies Endnotes and Footnotes Guidance on using endnotes and footnotes for further information Quoting and Paraphrasing Tips for accurately quoting and paraphrasing sources Grammar and Punctuation A thorough review of grammar and punctuation rules specifically relevant to academic writing Why Choose This Book Authoritative and Up to Date Written by experts with years of experience in academia this book provides the most accurate and current information on Chicago style Comprehensive and Accessible Covers all aspects of Chicago style in a clear and easy to understand manner making it an essential resource for all levels of academic writing Real World Examples Features numerous examples and exercises to reinforce concepts and enhance understanding

Springer Handbook of Science and Technology Indicators Wolfgang Glänzel, Henk F. Moed, Ulrich Schmoch, Mike Thelwall, 2019-10-30 This handbook presents the state of the art of quantitative methods and models to understand and assess the science and technology system Focusing on various aspects of the development and application of indicators derived from data on scholarly publications patents and electronic communications the individual chapters written by leading experts discuss theoretical and methodological issues illustrate applications highlight their policy context and relevance and point to future research directions A substantial portion of the book is dedicated to detailed descriptions and analyses of data sources presenting both traditional and advanced approaches It addresses the main bibliographic metrics and indexes such as the journal impact factor and the h index as well as altmetric and webometric indicators and science mapping techniques on different levels of aggregation and in the context of their value for the assessment of research performance as well as their impact on research policy and society It also presents and critically discusses various national research evaluation systems Complementing the sections reflecting on the science system the technology section includes multiple chapters that explain different aspects of patent statistics patent classification and database search methods to retrieve patent related information In addition it examines the relevance of trademarks and standards as additional technological indicators The Springer Handbook of Science and Technology Indicators is an invaluable resource for practitioners scientists and policy makers wanting a systematic and thorough analysis of the potential and limitations of the various approaches to assess research and research performance

Debates in the Digital Humanities 2016 Matthew K. Gold, Lauren F. Klein, 2016-05-18 Pairing full length scholarly essays with shorter pieces drawn from scholarly blogs and conference presentations as well as commissioned interviews and position statements Debates in the Digital Humanities 2016 reveals a dynamic view of a field in negotiation with its identity methods and reach Pieces in the book explore how DH can and must change in response to social justice

movements and events like Ferguson how DH alters and is altered by community college classrooms and how scholars applying DH approaches to feminist studies queer studies and black studies might reframe the commitments of DH analysts Numerous contributors examine the movement of interdisciplinary DH work into areas such as history art history and archaeology and a special forum on large scale text mining brings together position statements on a fast growing area of DH research In the multivalent aspects of its arguments progressing across a range of platforms and environments Debates in the Digital Humanities 2016 offers a vision of DH as an expanded field new possibilities differently structured Published simultaneously in print e book and interactive webtext formats each DH annual will be a book length publication highlighting the particular debates that have shaped the discipline in a given year By identifying key issues as they unfold and by providing a hybrid model of open access publication these volumes and the Debates in the Digital Humanities series will articulate the present contours of the field and help forge its future Contributors Moya Bailey Northeastern U Fiona Barnett Matthew Battles Harvard U Jeffrey M Binder Zach Blas U of London Cameron Blevins Rutgers U Sheila A Brennan George Mason U Timothy Burke Swarthmore College Rachel Sagner Buurma Swarthmore College Micha C rdenas U of Washington Bothell Wendy Hui Kyong Chun Brown U Tanya E Clement U of Texas Austin Anne Cong Huyen Whittier College Ryan Cordell Northeastern U Tressie McMillan Cottom Virginia Commonwealth U Amy E Earhart Texas A Domenico Fiormonte U of Roma Tre Paul Fyfe North Carolina State U Jacob Gaboury Stony Brook U Kim Gallon Purdue U Alex Gil Columbia U Brian Greenspan Carleton U Richard Grusin U of Wisconsin Milwaukee Michael Hancher U of Minnesota Molly O Hagan Hardy David L Hoover New York U Wendy F Hsu Patrick Jagoda U of Chicago Jessica Marie Johnson Michigan State U Steven E Jones Loyola U Margaret Linley Simon Fraser U Alan Liu U of California Santa Barbara Elizabeth Losh U of California San Diego Alexis Lothian U of Maryland Michael Maizels Wellesley College Mark C Marino U of Southern California Anne B McGrail Lane Community College Bethany Nowviskie U of Virginia Julianne Nyhan U College London Amanda Phillips U of California Davis Miriam Posner U of California Los Angeles Rita Raley U of California Santa Barbara Stephen Ramsay U of Nebraska Lincoln Margaret Rhee U of Oregon Lisa Marie Rhody Graduate Center CUNY Roopika Risam Salem State U Stephen Robertson George Mason U Mark Sample Davidson College Jentery Sayers U of Victoria Benjamin M Schmidt Northeastern U Scott Selisker U of Arizona Jonathan Senchyne U of Wisconsin Madison Andrew Stauffer U of Virginia Joanna Swafford SUNY New Paltz Toniesha L Taylor Prairie View A Dennis Tenen Melissa Terras U College London Anna Tione Ted Underwood U of Illinois Urbana Champaign Ethan Watrall Michigan State U Jacqueline Wernimont Arizona State U Laura Wexler Yale U Hong An Wu U of Illinois Urbana Champaign

Scalable and Efficient Probabilistic Topic Model Inference for Textual Data Måns Magnusson, 2018-04-27 Probabilistic topic models have proven to be an extremely versatile class of mixed membership models for discovering the thematic structure of text collections There are many possible applications covering a broad range of areas of study technology natural science social science and the humanities In this thesis a new efficient

parallel Markov Chain Monte Carlo inference algorithm is proposed for Bayesian inference in large topic models The proposed methods scale well with the corpus size and can be used for other probabilistic topic models and other natural language processing applications The proposed methods are fast efficient scalable and will converge to the true posterior distribution In addition in this thesis a supervised topic model for high dimensional text classification is also proposed with emphasis on interpretable document prediction using the horseshoe shrinkage prior in supervised topic models Finally we develop a model and inference algorithm that can model agenda and framing of political speeches over time with a priori defined topics We apply the approach to analyze the evolution of immigration discourse in the Swedish parliament by combining theory from political science and communication science with a probabilistic topic model

Probabilistiska mnesmodeller topic models r en m ngsidig klass av modeller f r att estimeras mnessammans ttningar i st rre corpusar Applikationer finns i ett flertal vetenskapsomr den som teknik naturvetenskap samh llsvetenskap och humaniora I denna avhandling f resl s nya effektiva och parallella Markov Chain Monte Carlo algoritmer f r Bayesianska mnesmodeller De f reslagna metoderna skalar v l med storleken p corpuset och kan anv ndas f r flera olika mnesmodeller och liknande modeller inom spr kteknologi De f reslagna metoderna r snabba effektiva skalbara och konvergerar till den sanna posteriorf rdelningen Dessutom f resl s en mnesmodell f r h gdimensionell textklassificering med tonvikt p tolkningsbar dokumentklassificering genom att anv nda en kraftigt regulariserande priorif rdelningar Slutligen utvecklas en mnesmodell f r att analysera agenda och framing f r ett f rutbest mt mne Med denna metod analyserar vi invandringsdiskursen i Sveriges Riksdag ver tid genom att kombinera teori fr n statsvetenskap kommunikationsvetenskap och probabilistiska mnesmodeller

Key Topics in Psychological Methods Springer Behavioral & Health Sciences, 2022-11-03 This volume features cutting edge and impactful articles from across Springer s diverse journals publishing program In this curated collection our editorial team has brought together highly cited and downloaded articles on the topic of Psychological Methods into one single resource Moreover this book enables readers to review a broad spectrum of quality research on a specialized topic which we hope facilitates interdisciplinary and critical discussions of the topic at hand As part of the Key Topics in Behavioral Sciences book series this volume aims to serve as a quick reference for readers when writing or researching new topics or subject areas Other topics in the series will include Psychological Research Methods Health and Behavior Industrial and Organizational Psychology Sports Psychology and Consumer Behavior In the first section of the volume articles focus on such topics as Artificial Intelligence Cultural Learning Human Evolution Human Computer Interaction Referential Triangle Social Interaction Differences Diversity Evolution Genetics Populations and Race Next the second section features research on Double Dialogicality Generalization Qualitative Research Single Case Data Analysis Data Screening Insufficient Effort Responding Research Design Research Methods and Survey Research Lastly in the final section of this collection Data Snooping Harking Publication Bias Simulation Open Science Philosophy Of Science Questionable Research Practices

Research Ethics Content Analysis Dictionary Analysis Natural Language Processing Structural Topic Modeling Text Analysis Thematic Analysis and Topic Modeling are discussed

Research Handbook on Sustainability Reporting Gunnar Rimmel,Güler Aras,Diogenis Baboukardos,Joanna Krasodomska,Christian Nielsen,Frank Schiemann,2024-09-06 This insightful Research Handbook provides an overview of the complex and multifaceted nature of sustainability reporting Bringing together over 50 researchers from across the globe it summarises the current state of knowledge identifies key methodological approaches and research gaps and encourages researchers to make further meaningful contributions to this dynamic field

Applications of Computer-aided Text Analysis in Natural Resources David N. Bengston,2000

Lexical Issues in L2 Writing Katalin Doró,Päivi Pietilä,Renata Pípalová,2015-09-04 Research into lexical issues has been one of the most rapidly growing areas of second language acquisition studies in recent years and understandably so the importance of vocabulary can hardly be denied Words are the key to every instance of communication both spoken and written This volume concentrates on vocabulary in written language mostly in academic settings The writers of the chapters come from different countries and universities and naturally represent their own academic backgrounds though they all share a common interest in investigating the characteristics of L2 lexis as it manifests itself in the written production of students at various stages of their language learning careers The target language L2 in the studies reported in the volume is English except in one study on the lexical competence of multilingual learners of French The subjects native languages include Czech Danish Finnish Hungarian and Swedish thus representing several different language families Each chapter constitutes an independent unit but together the studies reported in them give the reader a varied and extensive picture of lexical issues in L2 writing The authors approach their topics from different perspectives and use diverse research methods adding to the multifaceted nature of the volume The book will be of interest to researchers educators and students of second language acquisition and applied linguistics

Interdisciplinary Perspectives on Sustainable Development Dimitrios A. Karras,Sai Kiran Oruganti,Sudeshna Ray,2023-10-19 ISC 2022 is dedicated to the Niti Aayog policies to promote sustainability through exchange of ideas emerging out of the academia The ISC is an annual conference that is held in virtual mode until COVID restrictions on travel exist The vision of the conference is to capacitate Academia with the necessary ideas that provide insights of the grassroot level development to various stakeholders of the Niti Aayog policies Towards this goal the conference creates a conjunction of various stakeholders of Niti Aayog policies that include academic institutions government bodies policy makers and industry The ISC organizers make concerted efforts to promote academic research that would technological scientific management business practices and insights into policy merits disruptions The framework of exchange of ideas is geared towards adoption of deep technologies fundamental sciences engineering energy research energy policies advances in medicine related case studies This framework enables the round table discussions between the academia industry and policy makers through its range of plenary and keynote speakers

Knowledge Discovery,

Knowledge Engineering and Knowledge Management Ana Fred, Jan L. G. Dietz, David Aveiro, Kecheng Liu, Joaquim Filipe, 2015-10-27 This book constitutes the thoroughly refereed proceedings of the 6th International Joint Conference on Knowledge Discovery Knowledge Engineering and Knowledge Management IC3K 2014 held in Rome Italy in October 2014 The 37 full papers presented were carefully reviewed and selected from 287 submissions The papers are organized in topical sections on knowledge discovery and information retrieval knowledge engineering and ontology development knowledge management and information sharing

The Sage Handbook of Survey Development and Application Lucy R. Ford, Terri A. Scandura, 2023-06-29 The SAGE Handbook of Survey Development and Application provides a practical resource that researchers can go to for cutting edge tools to ensure they are employing the best survey research techniques This handbook not only covers the classic and innovational skills and approaches involved at every step of the survey research process but also centres itself around applied how to guidance to aid readers in best practice Chapters engage with a broad range of topics including sampling issues approaches to establishment of measurement equivalence and the use of online labour pools in survey development With contributions from a global community of leading and emerging scholars across a wide variety of disciplines this Handbook is focused on being applicable and accessible across the social sciences Containing over 120 tables and figures checklists and tutorial guides The SAGE Handbook of Survey Development and Application will serve as a one stop resource for survey research This handbook serves as a touchstone for a variety of fields such as Organizational Behavior Industrial Organizational Psychology Management Psychology Educational Research Marketing Public Policy and others PART 1 Conceptual Issues and Operational Definition PART 2 Research Design Considerations PART 3 Item Development PART 4 Scale Improvement Methods PART 5 Data Collection PART 6 Data Management and Analysis PART 7 Research Production and Dissemination PART 8 Applications

Contemporary Methods and Austrian Economics Daniel J. D'Amico, Adam G. Martin, 2022-01-27 Contemporary Methods and Austrian Economics examines the relationship between Austrian economics and these new social scientific methods

Rough Sets and Knowledge Technology Guoyin Wang, Tianrui Li, Jerzy W. Grzymala-Busse, Duoqian Miao, Yiyu Y. Yao, 2008-04-25 This book constitutes the refereed proceedings of the Third International Conference on Rough Sets and Knowledge Technology RSKT 2008 held in Chengdu China in May 2008 The 91 revised full papers papers presented together with 3 keynote papers and 6 tutorial papers were carefully reviewed and selected from 184 submissions They all focus on five major research fields computing theory and paradigms knowledge technology intelligent information processing intelligent control and applications The papers are organized in topical sections on rough and soft computing rough mereology with applications dominance based rough set approach fuzzy rough hybridization granular computing logical and mathematical foundations formal concept analysis data mining machine learning intelligent information processing bioinformatics and cognitive informatics web intelligence pattern recognition and real life applications of knowledge technology

Developments in

Information & Knowledge Management for Business Applications Natalia Kryvinska, Aneta Poniszewska-Marańda, 2021-08-15

This book provides practical knowledge on different aspects of information and knowledge management in businesses. In contemporary unstable times, enterprises/businesses deal with various challenges such as large-scale competitions, high levels of uncertainty and risk, rapid technological advancements while increasing customer requirements. Thus, businesses work continually on improving efficiency of their operations and resources towards enabling sustainable solutions based on the knowledge and information accumulated previously. Consequently, this third volume of our subline persists to highlight different approaches of handling enterprise knowledge/information management, directing to the importance of unceasing progress of structural management for the steady growth. We look forward that the works of this volume can encourage and initiate further research on this topic.

Topics For Text Analysis Papers Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Topics For Text Analysis Papers**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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