
The Hourglass Of Emotions Senticnet

Cognitive Behavioural Systems
Techniques, Tools, and Applications
The Rise of Empathic Media
Emotions and Personality in Personalized Services
Proceedings of the 15th International Conference on Computing and Information Technology (IC2IT 2019)
A Perceptual Theory of Emotion
Sentiment Analysis and Opinion Mining
Essential Readings
Intelligent Asset Management
The Emotion Machine
A Practical Guide to Sentiment Analysis
Natural Language Processing and Chinese Computing
The Measurement of Meaning
Semantic Sentiment Analysis in Social Streams
Linguistic Linked Data
A Common-Sense-Based Framework for Concept-Level Sentiment Analysis
The SenticNet Sentiment Lexicon: Exploring Semantic Richness in Multi-Word Concepts
Advances in Computational Intelligence
Principles of Social Networking
Theory and Practices
Multimodal Analysis of User-Generated Multimedia Content
Semantics : Primes and Universals
Intelligent Software Methodologies, Tools and Techniques
9th International Conference on Interactive Digital Storytelling, ICIDS 2016, Los Angeles, CA, USA, November 15-18, 2016, Proceedings
19th Mexican International Conference on Artificial Intelligence, MICAI 2020, Mexico City, Mexico, October 12-17, 2020, Proceedings, Part II
Cognitive Design for Artificial Minds
Multimodal Sentiment Analysis
Sentiment Analysis in Social Networks
Multimodal Analysis of User-Generated Multimedia Content
Emotion, Metaphor and Terminology
Interactive Storytelling
Theory and Research
Sentic Computing
Commonsense Thinking, Artificial Intelligence, and the Future of the Human Mind
Recent Advances in Information and Communication Technology 2019
14th International Conference, SoMet 2015, Naples, Italy, September 15-17, 2015. Proceedings
An Environment of Computational Intelligence
Handbook of Research on Opinion Mining and Text Analytics on Literary Works and Social Media

WALSH CLARA

Cognitive Behavioural Systems Oxford University Press

In this mind-expanding book, scientific pioneer Marvin Minsky continues his groundbreaking research, offering a fascinating new model for how our minds work. He argues persuasively that emotions, intuitions, and feelings are not distinct things, but different ways of thinking. By examining these different forms of mind activity, Minsky says, we can explain why our thought sometimes takes the form of carefully reasoned analysis and at other times turns to emotion. He shows how our minds progress from simple, instinctive kinds of thought to more complex forms, such as consciousness or self-awareness. And he argues that because we tend to see our thinking as fragmented, we fail to appreciate what powerful thinkers we really are. Indeed, says Minsky, if thinking can be understood as the step-by-step process that it is, then we can build machines -- artificial intelligences -- that not only can assist with our thinking by thinking as we do but have the potential to be as conscious as we are. Eloquently written, *The Emotion Machine* is an intriguing look into a future where more powerful artificial intelligences await.

Techniques, Tools, and Applications Springer Nature

This book presents the latest research on computer recognition systems. Over the last few years, computer scientists, engineers and users have been confronted with rapid changes in computer interfaces and in the abilities of the machines and the services available. And this is just the beginning: based on recent research findings, we can expect more significant advances and challenges in the next decade. Achievements in the area of artificial intelligence have made an important major contribution to these developments: Machine learning, natural language processing, speech recognition, image and video processing are just some of the major research and engineering directions that have made autonomous driving, language assistants, automatic translation and answering systems as well as other innovative applications such as more human-oriented interfaces possible. Those developments also reflect economic changes in the world, which are increasingly dominated by the needs of enhanced globalization, international cooperation (including its competitive aspects) and emerging global problems.

The Rise of Empathic Media Springer

This two volume set of LNAI 11108 and LNAI 11109 constitutes the refereed proceedings of the 7th CCF Conference on Natural Language Processing and Chinese Computing, NLPCC 2018, held in Hohhot, China, in August 2018. The 55 full papers and 31 short papers presented were carefully reviewed and selected from 308 submissions. The papers of the first volume are organized in the following topics: conversational Bot/QA/IR; knowledge graph/IE; machine learning for NLP; machine translation; and NLP applications. The papers of the second volume are organized as follows: NLP for social network; NLP fundamentals; text mining; and short papers.

Emotions and Personality in Personalized Services IOS Press

The scientific study of emotion has long been dominated by theories emphasizing the subjective

experience of emotions and their accompanying expressive and physiological responses. The processes by which different emotions are elicited has received less attention, the implicit assumption being that certain emotions arise automatically in response to certain types of events or situations. Such an assumption is incompatible with data showing that similar situations can provoke a range of emotions in different individuals, or even the same individual at different times. Appraisal theory, first suggested by Magda Arnold and Richard Lazarus, was formulated to address this shortcoming in our understanding of emotion. The central tenet of appraisal theory is that emotions are elicited according to an individual's subjective interpretation or evaluation of important events or situations. Appraisal research focuses on identifying the evaluative dimensions or criteria that predict which emotion will be elicited in an individual, as well as linking the appraisal process with the production of emotional responses. This book represents the first full-scale summary of the current state of appraisal research. Separate sections cover the history of appraisal theory and its fundamental ideas, the views of some of the major theorists currently active in the field, theoretical and methodological problems with the appraisal approach including suggestions for their resolution, social, cultural and individual differences and the application of appraisal theory to understanding and treating emotional pathology, and the methodology used in appraisal research including measuring and analyzing self-report, physiological, facial, and vocal indicators of appraisal, and simulating appraisal processes via computational models. Intended for advanced students and researchers in emotion psychology, it provides an authoritative assessment and critique of the current state of the art in appraisal research.

Proceedings of the 15th International Conference on Computing and Information Technology (IC2IT 2019) SAGE

This book presents a summary of the multimodal analysis of user-generated multimedia content (UGC). Several multimedia systems and their proposed frameworks are also discussed. First, improved tag recommendation and ranking systems for social media photos, leveraging both content and contextual information, are presented. Next, we discuss the challenges in determining semantics and sentics information from UGC to obtain multimedia summaries. Subsequently, we present a personalized music video generation system for outdoor user-generated videos. Finally, we discuss approaches for multimodal lecture video segmentation techniques. This book also explores the extension of these multimedia system with the use of heterogeneous continuous streams.

A Perceptual Theory of Emotion Springer

Personalization is ubiquitous from search engines to online-shopping websites helping us find content more efficiently and this book focuses on the key developments that are shaping our daily online experiences. With advances in the detection of end users' emotions, personality, sentiment and social signals, researchers and practitioners now have the tools to build a new generation of personalized systems that will really understand the user's state and deliver the right content. With leading experts from a vast array of domains from user modeling, mobile sensing and information retrieval to artificial intelligence, human-computer interaction (HCI) social computing and

psychology, a broad spectrum of topics are covered. From discussing psychological theoretical models and exploring state-of-the-art methods for acquiring emotions and personality in an unobtrusive way, as well as describing how these concepts can be used to improve various aspects of the personalization process and chapters that discuss evaluation and privacy issues. Emotions and Personality in Personalized Systems will help aid researchers and practitioners develop and evaluate user-centric personalization systems that take into account the factors that have a tremendous impact on our decision-making – emotions and personality.

Sentiment Analysis and Opinion Mining MIT Press

The two-volume set LNAI 11288 and 11289 constitutes the proceedings of the 17th Mexican International Conference on Artificial Intelligence, MICAI 2018, held in Guadalajara, Mexico, in October 2018. The total of 62 papers presented in these two volumes was carefully reviewed and selected from 149 submissions. The contributions are organized in topical as follows: Part I: evolutionary and nature-inspired intelligence; machine learning; fuzzy logic and uncertainty management. Part II: knowledge representation, reasoning, and optimization; natural language processing; and robotics and computer vision.

Essential Readings Springer

Sentiment analysis research has been started long back and recently it is one of the demanding research topics. Research activities on Sentiment Analysis in natural language texts and other media are gaining ground with full swing. But, till date, no concise set of factors has been yet defined that really affects how writers' sentiment i.e., broadly human sentiment is expressed, perceived, recognized, processed, and interpreted in natural languages. The existing reported solutions or the available systems are still far from perfect or fail to meet the satisfaction level of the end users. The reasons may be that there are dozens of conceptual rules that govern sentiment and even there are possibly unlimited clues that can convey these concepts from realization to practical implementation. Therefore, the main aim of this book is to provide a feasible research platform to our ambitious researchers towards developing the practical solutions that will be indeed beneficial for our society, business and future researches as well.

Intelligent Asset Management Springer

A new edition of the widely used guide to the key ideas, languages, and technologies of the Semantic Web. The development of the Semantic Web, with machine-readable content, has the potential to revolutionize the World Wide Web and its uses. A Semantic Web Primer provides an introduction and guide to this continuously evolving field, describing its key ideas, languages, and technologies. Suitable for use as a textbook or for independent study by professionals, it concentrates on undergraduate-level fundamental concepts and techniques that will enable readers to proceed with building applications on their own and includes exercises, project descriptions, and annotated references to relevant online materials. The third edition of this widely used text has been thoroughly updated, with significant new material that reflects a rapidly developing field. Treatment of the different languages (OWL2, rules) expands the coverage of RDF and OWL, defining the data model independently of XML and including coverage of N3/Turtle and RDFa. A chapter is devoted to OWL2, the new W3C standard. This edition also features additional coverage of the query language SPARQL, the rule language RIF and the possibility of interaction between rules and ontology

languages and applications. The chapter on Semantic Web applications reflects the rapid developments of the past few years. A new chapter offers ideas for term projects. Additional material, including updates on the technological trends and research directions, can be found at <http://www.semanticwebprimer.org>.

The Emotion Machine Springer Nature

The logic of semantic differentiation; The dimensionality of the semantic space; The semantic differential as a measuring instrument; Evaluation of the semantic differential; Attitude measurement and the principle of congruity; Semantic measurement in personality and psychotherapy research; Semantic measurement in communications research.

A Practical Guide to Sentiment Analysis Guilford Publications

In this book common sense computing techniques are further developed and applied to bridge the semantic gap between word-level natural language data and the concept-level opinions conveyed by these. In particular, the ensemble application of graph mining and multi-dimensionality reduction techniques is exploited on two common sense knowledge bases to develop a novel intelligent engine for open-domain opinion mining and sentiment analysis. The proposed approach, termed sentic computing, performs a clause-level semantic analysis of text, which allows the inference of both the conceptual and emotional information associated with natural language opinions and, hence, a more efficient passage from (unstructured) textual information to (structured) machine-processable data.

Natural Language Processing and Chinese Computing IGI Global

The research and its outcomes presented in this book, is about lexicon-based sentiment analysis. It uses single-, and multi-word concepts from the SenticNet sentiment lexicon as the source of sentiment information for the purpose of sentiment classification. In 6 chapters the book sheds light on the comparison of sentiment classification accuracy between single-word and multi-word concepts, for which a bespoke sentiment analysis system developed by the author was used. This book will be of interest to students, educators and researchers in the field of Sentic Computing.

The Measurement of Meaning Morgan & Claypool Publishers

This book presents a summary of the multimodal analysis of user-generated multimedia content (UGC). Several multimedia systems and their proposed frameworks are also discussed. First, improved tag recommendation and ranking systems for social media photos, leveraging both content and contextual information, are presented. Next, we discuss the challenges in determining semantics and sentsics information from UGC to obtain multimedia summaries. Subsequently, we present a personalized music video generation system for outdoor user-generated videos. Finally, we discuss approaches for multimodal lecture video segmentation techniques. This book also explores the extension of these multimedia system with the use of heterogeneous continuous streams.

Semantic Sentiment Analysis in Social Streams Oxford University Press

The abundance of text available in social media and health-related forums and blogs have recently attracted the interest of the public health community to use these sources for opinion mining. This book presents a lexicon-based approach to sentiment analysis in the bio-medical domain, i.e., WordNet for Medical Events (WME). This book gives an insight in handling unstructured textual data and converting it to structured machine-processable data in the bio-medical domain. The readers

will discover the following key novelties: 1) development of a bio-medical lexicon: WME expansion and WME enrichment with additional features.; 2) ensemble of machine learning and computational creativity; 3) development of microtext analysis techniques to overcome the inconsistency in social communication. It will be of interest to researchers in the fields of socially-intelligent human-machine interaction and biomedical text mining

Linguistic Linked Data University Press of America

This volume presents a knowledge-based approach to concept-level sentiment analysis at the crossroads between affective computing, information extraction, and common-sense computing, which exploits both computer and social sciences to better interpret and process information on the Web. Concept-level sentiment analysis goes beyond a mere word-level analysis of text in order to enable a more efficient passage from (unstructured) textual information to (structured) machine-processable data, in potentially any domain. Readers will discover the following key novelties, that make this approach so unique and avant-garde, being reviewed and discussed: • Sentic Computing's multi-disciplinary approach to sentiment analysis-evidenced by the concomitant use of AI, linguistics and psychology for knowledge representation and inference • Sentic Computing's shift from syntax to semantics-enabled by the adoption of the bag-of-concepts model instead of simply counting word co-occurrence frequencies in text • Sentic Computing's shift from statistics to linguistics-implemented by allowing sentiments to flow from concept to concept based on the dependency relation between clauses This volume is the first in the Series Socio-Affective Computing edited by Dr Amir Hussain and Dr Erik Cambria and will be of interest to researchers in the fields of socially intelligent, affective and multimodal human-machine interaction and systems.

A Common-Sense-Based Framework for Concept-Level Sentiment Analysis Springer

The aim of Sentiment Analysis is to define automatic tools able to extract subjective information from texts in natural language, such as opinions and sentiments, in order to create structured and actionable knowledge to be used by either a decision support system or a decision maker. Sentiment analysis has gained even more value with the advent and growth of social networking. Sentiment Analysis in Social Networks begins with an overview of the latest research trends in the field. It then discusses the sociological and psychological processes underling social network interactions. The book explores both semantic and machine learning models and methods that address context-dependent and dynamic text in online social networks, showing how social network streams pose numerous challenges due to their large-scale, short, noisy, context- dependent and dynamic nature. Further, this volume: Takes an interdisciplinary approach from a number of computing domains, including natural language processing, machine learning, big data, and statistical methodologies Provides insights into opinion spamming, reasoning, and social network analysis Shows how to apply sentiment analysis tools for a particular application and domain, and how to get the best results for understanding the consequences Serves as a one-stop reference for the state-of-the-art in social media analytics Takes an interdisciplinary approach from a number of computing domains, including natural language processing, big data, and statistical methodologies

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The SenticNet Sentiment Lexicon: Exploring Semantic Richness in Multi-Word Concepts Springer

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.

Advances in Computational Intelligence Morgan Kaufmann

This comprehensive review of the neuropsychology of emotion and the underlying neural mechanisms, is divided into four sections: background and general techniques, theoretical perspectives, emotional disorders, and clinical implications.

Principles of Social Networking Springer

There is no area of social psychology that does not involve emotions. Not only has social psychology contributed enormously to theory and research on the nature of emotions, it also has emotions at the heart of its basic subject matter, from attitudes and dissonance to altruism and aggression. This reader presents a collection of articles on the nature of emotions and their role in social psychological phenomena, along with recent work that reflects the current state of the art. Articles have been selected and edited for readability, succinctness, and interest. For the beginning student, this reader serves as an introduction to the social psychology of emotions, and makes a useful text for advanced undergraduate and graduate courses on emotions, social processes, and related topics. It may also serve as a supplement to a general text on social psychology.

Theory and Practices Springer Nature

Timely and authoritative, this volume reviews the breadth of current knowledge on the self-conscious emotions and their role in psychological and social functioning. Leading investigators approach the subject from multiple levels of analysis, ranging from basic brain mechanisms to complex social processes. Chapters present compelling advances in research on the most fundamental self-conscious emotions: embarrassment, guilt, humiliation, pride, and shame. Addressed are neural and evolutionary mechanisms, developmental processes, cultural differences and similarities, and influences on a wide array of social behaviors and personality processes. A unique chapter on assessment describes and evaluates the full range of available measures.