

Inderjeet Mani

Computational Modeling of Narrative

Computational Modeling Of Narrative Inderjeet Mani

Ogata, Takashi, Akimoto, Taisuke



Computational Modeling Of Narrative Inderjeet Mani:

Computational Modeling of Narrative Inderjeet Mani, 2013 The field of narrative or story understanding and generation is one of the oldest in natural language processing NLP and artificial intelligence AI which is hardly surprising since storytelling is such a fundamental and familiar intellectual and social activity In recent years the demands of interactive entertainment and interest in the creation of engaging narratives with life like characters have provided a fresh impetus to this field This book provides an overview of the principal problems approaches and challenges faced today in modeling the narrative structure of stories The book introduces classical narratological concepts from literary theory and their mapping to computational approaches It demonstrates how research in AI and NLP has modeled character goals causality and time using formalisms from planning case based reasoning and temporal reasoning and discusses fundamental limitations in such approaches It proposes new representations for embedded narratives and fictional entities for assessing the pace of a narrative and offers an empirical theory of audience response These notions are incorporated into an annotation scheme called NarrativeML The book identifies key issues that need to be addressed including annotation methods for long literary narratives the representation of modality and habituality and characterizing the goals of narrators It also suggests a future characterized by advanced text mining of narrative structure from large scale corpora and the development of a variety of useful authoring aids This is the first book to provide a systematic foundation that integrates together narratology AI and computational linguistics It can serve as a narratology primer for computer scientists and an elucidation of computational narratology for literary theorists It is written in a highly accessible manner and is intended for use by a broad scientific audience that includes linguists computational and formal semanticists AI researchers cognitive scientists computer scientists game developers and narrative theorists

Narrative and Generative AI Inderjeet Mani, 2025-10-25 This second edition provides an overview of the principal problems approaches and challenges in modeling the narrative structure of stories The book builds upon the prior edition by incorporating an additional focus on generative artificial intelligence and its applications for narratology The author explains the computational representations of narrative elements such as characters events causality and time proposing new methods for representing embedded narratives fictional entities tempo and audience response The book discusses the rise of generative AI systems including large language models and transformers The author explores the current applications of these systems and the extent to which they can be used to automate the cognitive aspects of narrative understanding and generation

The Oxford Handbook of Computational Linguistics Ruslan Mitkov, 2022-05-23 Ruslan Mitkov's highly successful Oxford Handbook of Computational Linguistics has been substantially revised and expanded in this second edition Alongside updated accounts of the topics covered in the first edition it includes 17 new chapters on subjects such as semantic role labelling text to speech synthesis translation technology opinion mining and sentiment analysis and the application of Natural Language Processing in educational and biomedical

contexts among many others The volume is divided into four parts that examine respectively the linguistic fundamentals of computational linguistics the methods and resources used such as statistical modelling machine learning and corpus annotation key language processing tasks including text segmentation anaphora resolution and speech recognition and the major applications of Natural Language Processing from machine translation to author profiling The book will be an essential reference for researchers and students in computational linguistics and Natural Language Processing as well as those working in related industries Handbook of Narratology Peter Hühn, Jan Christoph Meister, John Pier, Wolf

Schmid, 2014-10-10 This handbook provides a systematic overview of the present state of international research in narratology and is now available in a second completely revised and expanded edition Detailed individual studies by internationally renowned narratologists elucidate central terms of narratology present a critical account of the major research positions and their historical development and indicate directions for future research **The Imagined Moment**

Inderjeet Mani, 2010-06-01 Time is a key aspect of narrative It can advance a story illuminate its role in our daily lives and help us understand how events unfold In this groundbreaking interdisciplinary work Inderjeet Mani uses recent developments in linguistics and computer science to analyze the use of time in narrative form The Imagined Moment outlines directions for an emerging discipline of corpus narratology an approach involving the computer analysis and interpretation of multimillion word collections of narrative text This approach Mani explains could alter the very foundations of narrative theory Accordingly he develops a computer representation for timelines and applies it to a variety of literary works Among these are such classics as One Hundred Years of Solitude A Hunger Artist Swann's Way Jealousy Candide and The Short Happy Life of Francis Macomber Along the way Mani considers stories embedded in temporal cycles the cognitive processes involved in the construal of events in time the modeling of narrative progression in terms of changes in readers evaluation of characters the study of variations of tempo in fiction and time in computer mediated forms of storytelling **Learning to**

Rank for Information Retrieval and Natural Language Processing, Second Edition Hang Li, 2022-05-31 Learning to rank refers to machine learning techniques for training a model in a ranking task Learning to rank is useful for many applications in information retrieval natural language processing and data mining Intensive studies have been conducted on its problems recently and significant progress has been made This lecture gives an introduction to the area including the fundamental problems major approaches theories applications and future work The author begins by showing that various ranking problems in information retrieval and natural language processing can be formalized as two basic ranking tasks namely ranking creation or simply ranking and ranking aggregation In ranking creation given a request one wants to generate a ranking list of offerings based on the features derived from the request and the offerings In ranking aggregation given a request as well as a number of ranking lists of offerings one wants to generate a new ranking list of the offerings Ranking creation or ranking is the major problem in learning to rank It is usually formalized as a supervised learning task

The author gives detailed explanations on learning for ranking creation and ranking aggregation including training and testing evaluation feature creation and major approaches Many methods have been proposed for ranking creation The methods can be categorized as the pointwise pairwise and listwise approaches according to the loss functions they employ They can also be categorized according to the techniques they employ such as the SVM based Boosting based and Neural Network based approaches The author also introduces some popular learning to rank methods in details These include PRank OC SVM McRank Ranking SVM IR SVM GBRank RankNet ListNet ListMLE AdaRank SVM MAP SoftRank LambdaRank LambdaMART Borda Count Markov Chain and CRanking The author explains several example applications of learning to rank including web search collaborative filtering definition search keyphrase extraction query dependent summarization and re ranking in machine translation A formulation of learning for ranking creation is given in the statistical learning framework Ongoing and future research directions for learning to rank are also discussed Table of Contents

Learning to Rank Learning for Ranking Creation Learning for Ranking Aggregation Methods of Learning to Rank Applications of Learning to Rank Theory of Learning to Rank Ongoing and Future Work

Neural Network Methods for Natural Language Processing Yoav Goldberg, 2022-06-01 Neural networks are a family of powerful machine learning models This book focuses on the application of neural network models to natural language data The first half of the book Parts I and II covers the basics of supervised machine learning and feed forward neural networks the basics of working with machine learning over language data and the use of vector based rather than symbolic representations for words It also covers the computation graph abstraction which allows to easily define and train arbitrary neural networks and is the basis behind the design of contemporary neural network software libraries The second part of the book Parts III and IV introduces more specialized neural network architectures including 1D convolutional neural networks recurrent neural networks conditioned generation models and attention based models These architectures and techniques are the driving force behind state of the art algorithms for machine translation syntactic parsing and many other applications Finally we also discuss tree shaped networks structured prediction and the prospects of multi task learning

Argumentation Mining Manfred Stede, Jodi Schneider, 2022-06-01 Argumentation mining is an application of natural language processing NLP that emerged a few years ago and has recently enjoyed considerable popularity as demonstrated by a series of international workshops and by a rising number of publications at the major conferences and journals of the field Its goals are to identify argumentation in text or dialogue to construct representations of the constellation of claims supporting and attacking moves in different levels of detail and to characterize the patterns of reasoning that appear to license the argumentation Furthermore recent work also addresses the difficult tasks of evaluating the persuasiveness and quality of arguments Some of the linguistic genres that are being studied include legal text student essays political discourse and debate newspaper editorials scientific writing and others The book starts with a discussion of the linguistic perspective characteristics of argumentative language and their

relationship to certain other notions such as subjectivity Besides the connection to linguistics argumentation has for a long time been a topic in Artificial Intelligence where the focus is on devising adequate representations and reasoning formalisms that capture the properties of argumentative exchange It is generally very difficult to connect the two realms of reasoning and text analysis but we are convinced that it should be attempted in the long term and therefore we also touch upon some fundamentals of reasoning approaches Then the book turns to its focus the computational side of mining argumentation in text We first introduce a number of annotated corpora that have been used in the research From the NLP perspective argumentation mining shares subtasks with research fields such as subjectivity and sentiment analysis semantic relation extraction and discourse parsing Therefore many technical approaches are being borrowed from those and other fields We break argumentation mining into a series of subtasks starting with the preparatory steps of classifying text as argumentative or not and segmenting it into elementary units Then central steps are the automatic identification of claims and finding statements that support or oppose the claim For certain applications it is also of interest to compute a full structure of an argumentative constellation of statements Next we discuss a few steps that try to dig deeper to infer the underlying reasoning pattern for a textual argument to reconstruct unstated premises so called enthymemes and to evaluate the quality of the argumentation We also take a brief look at the other side of mining i e the generation or synthesis of argumentative text The book finishes with a summary of the argumentation mining tasks a sketch of potential applications and a necessarily subjective outlook for the field

Automatic Text Simplification Horacio Saggion, 2022-05-31 Thanks to the availability of texts on the Web in recent years increased knowledge and information have been made available to broader audiences However the way in which a text is written its vocabulary its syntax can be difficult to read and understand for many people especially those with poor literacy cognitive or linguistic impairment or those with limited knowledge of the language of the text Texts containing uncommon words or long and complicated sentences can be difficult to read and understand by people as well as difficult to analyze by machines Automatic text simplification is the process of transforming a text into another text which ideally conveying the same message will be easier to read and understand by a broader audience The process usually involves the replacement of difficult or unknown phrases with simpler equivalents and the transformation of long and syntactically complex sentences into shorter and less complex ones Automatic text simplification a research topic which started 20 years ago now has taken on a central role in natural language processing research not only because of the interesting challenges it possesses but also because of its social implications This book presents past and current research in text simplification exploring key issues including automatic readability assessment lexical simplification and syntactic simplification It also provides a detailed account of machine learning techniques currently used in simplification describes full systems designed for specific languages and target audiences and offers available resources for research and development together with text simplification evaluation techniques

Finite-State Text Processing Kyle Gorman, Richard

Sproat, 2021-05-26 Weighted finite state transducers WFSTs are commonly used by engineers and computational linguists for processing and generating speech and text This book first provides a detailed introduction to this formalism It then introduces Pynini a Python library for compiling finite state grammars and for combining optimizing applying and searching finite state transducers This book illustrates this library s conventions and use with a series of case studies These include the compilation and application of context dependent rewrite rules the construction of morphological analyzers and generators and text generation and processing applications

Recent Advances in Natural Language Processing, 2003 **T.A.L.**, 2004

A Computational Model of Narrative Generation for Suspense Yun Gyung Cheong, 2007 The generation of stories by computers with applications ranging from computer games to education and training has been the focus of research by computational linguists and AI researchers since the early 1970s Although several approaches have shown promise in their ability to generate narrative there has been little research on the generation of stories that evoke specific cognitive and affective responses in their readers The goal of this research is to develop a system that produces a narrative designed specifically to evoke a targeted degree of suspense a significant contributor to the level of engagement experienced by users of interactive narrative systems The system that I present takes as input a plan data structure representing the goals of a storyworld s characters and the actions they perform in pursuit of them Adapting theories developed by cognitive psychologists my system uses a plan based model of narrative comprehension to determine the final content of the story in order to manipulate a reader s level of suspense in specific ways In this thesis I outline the various components of the system and describe an empirical evaluation that I used to determine the efficacy of my techniques The evaluation provides strong support for the claim that the system is effective in generating suspenseful stories

Narrative Analysis and Computational Model to Predict Interestingness of Narratives Laxman Thapa, 2011 *Computational Models of Narrative* Association for the Advancement of Artificial Intelligence, 2010-11-13

A Computational Model of Narrative Generation for Suspense, 2004 The generation of stories by computers with applications ranging from computer games to education and training has been the focus of research by computational linguists and AI researchers since the early 1970s Although several approaches have shown promise in their ability to generate narrative there has been little research on the generation of stories that evoke specific cognitive and affective responses in their readers The goal of this research is to develop a system that produces a narrative designed specifically to evoke a targeted degree of suspense a significant contributor to the level of engagement experienced by users of interactive narrative systems The system that I present takes as input a plan data structure representing the goals of a storyworld s characters and the actions they perform in pursuit of them Adapting theories developed by cognitive psychologists my system uses a plan based model of narrative comprehension to determine the final content of the story in order to manipulate a reader s level of suspense in specific ways In this thesis I outline the various components of the system and describe an empirical evaluation that I used to determine the efficacy of my

techniques The evaluation provides strong support for the claim that the system is effective in generating suspenseful stories

Computational Analysis of Storylines Tommaso Caselli, Martha Stone Palmer, Eduard H. Hovy, Piek Vossen, 2021 Event structures have been at the heart of Linguistics and Artificial Intelligence People can easily refer to changes in the world identify their participants distinguish relevant information and have expectations of what can happen next Part of this process is based on mechanisms which are similar to narratives Narratives provide means for understanding and organizing information by creating connections that form storylines Such narrative structures are at the heart of information sharing But it remains extraordinarily difficult to detect events automatically let alone to automatically construct stories from such event representations Handling today's massive news streams demands multidimensional multimodal distributed approaches to capture events and narrative structures involved in a story The book explores these topics both by providing materials for a better understanding of the state of the art as well as by highlighting the pending challenges in the area of events and storylines Current research in this area is lively but fragmented and for some topics e.g. storyline representation and evaluation still at early stages

A Computational Model of Narrative Generation for Surprise Arousal Byung Chull Bae, 2009 Keywords analepsis flashback surprise arousal narrative generation Computational and Cognitive Approaches to Narratology Ogata, Takashi, Akimoto, Taisuke, 2016-07-15 Studying narratives is often the best way to gain a good understanding of how various aspects of human information are organized and integrated the narrator employs specific informational methods to build the whole structure of a narrative through combining temporally constructed events in light of an array of relationships to the narratee and these methods reveal the interaction of the rational and the sensitive aspects of human information Computational and Cognitive Approaches to Narratology discusses issues of narrative related information and communication technologies cognitive mechanism and analyses and theoretical perspectives on narratives and the story generation process Focusing on emerging research as well as applications in a variety of fields including marketing philosophy psychology art and literature this timely publication is an essential reference source for researchers professionals and graduate students in various information technology cognitive studies design and creative fields

Post-Narratology Through Computational and Cognitive Approaches Ogata, Takashi, Akimoto, Taisuke, 2019-02-01 Studying narratives is an ideal method to gain a good understanding of how various aspects of human information are organized and integrated The concept and methods of a narrative which have been explored in narratology and literary theories are likely to be connected with contemporary information studies in the future including those in computational fields such as AI and in cognitive science This will result in the emergence of a significant conceptual and methodological foundation for various technologies of novel contents media human interface etc Post Narratology Through Computational and Cognitive Approaches explores the new possibilities and directions of narrative related technologies and theories and their implications on the innovative design development and creation of future media and contents such as automatic

narrative or story generation systems through interdisciplinary approaches to narratology that are dependent on computational and cognitive studies While highlighting topics including artificial intelligence narrative analysis and rhetoric generation this book is ideally designed for designers creators developers researchers and advanced level students

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