



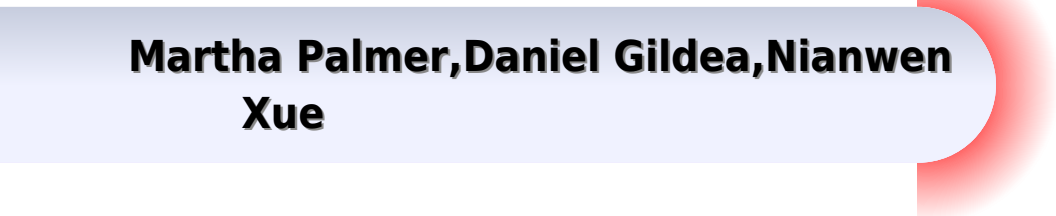
Semantic Role Labeling

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Semantic Role Labeling Daniel Gildea

**Martha Palmer, Daniel Gildea, Nianwen
Xue**



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Semantic Role Labeling Martha Palmer, Daniel Gildea, Nianwen Xue, 2011-02-02 This book is aimed at providing an overview of several aspects of semantic role labeling Chapter 1 begins with linguistic background on the definition of semantic roles and the controversies surrounding them Chapter 2 describes how the theories have led to structured lexicons such as FrameNet VerbNet and the PropBank Frame Files that in turn provide the basis for large scale semantic annotation of corpora This data has facilitated the development of automatic semantic role labeling systems based on supervised machine learning techniques Chapter 3 presents the general principles of applying both supervised and unsupervised machine learning to this task with a description of the standard stages and feature choices as well as giving details of several specific systems Recent advances include the use of joint inference to take advantage of context sensitivities and attempts to improve performance by closer integration of the syntactic parsing task with semantic role labeling Chapter 3 also discusses the impact the granularity of the semantic roles has on system performance Having outlined the basic approach with respect to English Chapter 4 goes on to discuss applying the same techniques to other languages using Chinese as the primary example Although substantial training data is available for Chinese this is not the case for many other languages and techniques for projecting English role labels onto parallel corpora are also presented Table of Contents Preface Semantic Roles Available Lexical Resources Machine Learning for Semantic Role Labeling A Cross Lingual Perspective Summary ,

Natural Language Data Management and Interfaces Yunyao Li, Davood Rafiei, 2022-06-01 The volume of natural language text data has been rapidly increasing over the past two decades due to factors such as the growth of the Web the low cost associated with publishing and the progress on the digitization of printed texts This growth combined with the proliferation of natural language systems for search and retrieving information provides tremendous opportunities for studying some of the areas where database systems and natural language processing systems overlap This book explores two interrelated and important areas of overlap 1 managing natural language data and 2 developing natural language interfaces to databases It presents relevant concepts and research questions state of the art methods related systems and research opportunities and challenges covering both areas Relevant topics discussed on natural language data management include data models data sources queries storage and indexing and transforming natural language text Under natural language interfaces it presents the anatomy of these interfaces to databases the challenges related to query understanding and query translation and relevant aspects of user interactions Each of the challenges is covered in a systematic way first starting with a quick overview of the topics followed by a comprehensive view of recent techniques that have been proposed to address the challenge along with illustrative examples It also reviews some notable systems in details in terms of how they address different challenges and their contributions Finally it discusses open challenges and opportunities for natural language management and interfaces The goal of this book is to provide an introduction to the methods problems and solutions that

are used in managing natural language data and building natural language interfaces to databases It serves as a starting point for readers who are interested in pursuing additional work on these exciting topics in both academic and industrial environments

Semantics John I. Saeed, 2022-11-30 The latest edition of the bestselling introduction to the field of linguistic semantics updated throughout and featuring a wholly new chapter on inferential pragmatics *Semantics Fifth Edition* is a comprehensive and well balanced introduction to the study of the communication of meaning in language Assuming no previous background in semantics and limited familiarity with formal linguistics this student friendly textbook describes the concepts theory and study of semantics in an accessible and clear style Concise chapters describe the role of semantics within contemporary linguistics cover key topics in the analysis of word and sentence meaning and review major semantic theories such as componential theory formal semantics and cognitive semantics The updated fifth edition incorporates recent theoretical developments and important research in linguistic semantics featuring an entirely new chapter examining the overlap between inferential pragmatics and Relevance Theory truth conditional meaning and other traditional areas of semantics Revised and expanded sections discuss the continuing growth and consolidation of cognitive semantics various contextual features of language conceptualization and categorization and construal and perspective This edition includes new exercises with solutions up to date references to relevant literature and additional examples with data from a wide range of different languages Covers basic concepts and methods as well as key theoretical models current lines of research and important writers Explains general concepts in semantics before gradually moving to more advanced topics in semantic description and theoretical approaches Highlights the relation between cross linguistic variation and language universals Provides students with the background necessary to understand more advanced and specialized primary semantics literature Includes a glossary of technical terms and numerous exercises arranged by level of difficulty Highlights the relationship between semantics and cross linguistic variation language universals and pragmatics With detailed examples from a wide range of contexts and a wealth of practical exercises *Semantics Fifth Edition* remains the perfect textbook for undergraduate students of linguistics English language applied linguistics modern languages and computer sciences

Semantics - Typology, Diachrony and Processing Klaus Heusinger, Claudia Maienborn, Paul Portner, 2019-02-19 Now available in paperback for the first time since its original publication the material in this book provides a broad accessible guide to semantic typology crosslinguistic semantics and diachronic semantics Coming from a world leading team of authors the book also deals with the concept of meaning in psycholinguistics and neurolinguistics and the understanding of semantics in computer science It is packed with highly cited expert guidance on the key topics in the field making it a bookshelf essential for linguists cognitive scientists philosophers and computer scientists working on natural language

The Oxford Handbook of Computational Linguistics Ruslan Mitkov, 2022-06-02 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

Semantic Relations Between Nominals Vivi Nastase, Stan Szpakowicz, Preslav Nakov, Diarmuid Ó Séaghdha, 2021-04-08 Opportunity and Curiosity find similar rocks on Mars One can generally understand this statement if one knows that Opportunity and Curiosity are instances of the class of Mars rovers and recognizes that as signalled by the word on ROCKS are located on Mars Two mental operations contribute to understanding recognize how entities concepts mentioned in a text interact and recall already known facts which often themselves consist of relations between entities concepts Concept interactions one identifies in the text can be added to the repository of known facts and aid the processing of future texts The amassed knowledge can assist many advanced language processing tasks including summarization question answering and machine translation Semantic relations are the connections we perceive between things which interact The book explores two now intertwined threads in semantic relations how they are expressed in texts and what role they play in knowledge repositories A historical perspective takes us back more than 2000 years to their beginnings and then to developments much closer to our time various attempts at producing lists of semantic relations necessary and sufficient to express the interaction between entities concepts A look at relations outside context then in general texts and then in texts in specialized domains has gradually brought new insights and led to essential adjustments in how the relations are seen At the same time datasets which encompass these phenomena have become available They started small then grew somewhat then became truly large The large resources are inevitably noisy because they are constructed automatically The available corpora to be analyzed or used to gather relational evidence have also grown and some systems now operate at the Web scale The learning of semantic relations has proceeded in parallel in adherence to supervised unsupervised or distantly supervised paradigms Detailed analyses of annotated datasets in supervised learning have granted insights useful in developing unsupervised and distantly supervised methods These in turn have contributed to the understanding of what relations are and how to find them and that has led to methods scalable to Web sized textual data The size and redundancy of information in very large corpora which at first seemed problematic have been harnessed to improve the process of relation extraction learning The newest technology deep learning supplies innovative and surprising solutions to a variety of problems in relation learning This book aims to paint a big picture and to

offer interesting details **The Swedish FrameNet++** Dana Dannélls,Lars Borin,Karin Friberg Heppin,2021-11-26 Large computational lexicons are central NLP resources Swedish FrameNet aims to be a versatile full scale lexical resource for NLP containing many kinds of linguistic information Although focused on Swedish this ongoing effort which includes building a new Swedish framenet and recycling existing lexicons has offered valuable insights into general aspects of lexical resource building for NLP which are discussed in this book computational and linguistic problems of lexical semantics and lexical typology the nature of lexical items words and multiword expressions achieving interoperability among heterogeneous lexical content NLP methods for extending and interlinking existing lexicons and deploying the new resource in practical NLP applications This book is targeted at everyone with an interest in lexicography computational lexicography lexical typology lexical semantics linguistics computational linguistics and related fields We believe it should be of particular interest to those who are or have been involved in language resource creation development and evaluation Metaphor Tony

Veale,Ekaterina Shutova,Beata Beigman Klebanov,2022-06-01 The literary imagination may take flight on the wings of metaphor but hard headed scientists are just as likely as doe eyed poets to reach for a metaphor when the descriptive need arises Metaphor is a pervasive aspect of every genre of text and every register of speech and is as useful for describing the inner workings of a black hole itself a metaphor as it is the affairs of the human heart The ubiquity of metaphor in natural language thus poses a significant challenge for Natural Language Processing NLP systems and their builders who cannot afford to wait until the problems of literal language have been solved before turning their attention to figurative phenomena This book offers a comprehensive approach to the computational treatment of metaphor and its figurative brethren including simile analogy and conceptual blending that does not shy away from their important cognitive and philosophical dimensions Veale Shutova and Beigman Klebanov approach metaphor from multiple computational perspectives providing coverage of both symbolic and statistical approaches to interpretation and paraphrase generation while also considering key contributions from philosophy on what constitutes the meaning of a metaphor This book also surveys available metaphor corpora and discusses protocols for metaphor annotation Any reader with an interest in metaphor from beginning researchers to seasoned scholars will find this book to be an invaluable guide to what is a fascinating linguistic phenomenon

Natural Language Processing for Social Media Atefeh Farzindar,2022-11-10 In recent years online social networking has revolutionized interpersonal communication The newer research on language analysis in social media has been increasingly focusing on the latter s impact on our daily lives both on a personal and a professional level Natural language processing NLP is one of the most promising avenues for social media data processing It is a scientific challenge to develop powerful methods and algorithms which extract relevant information from a large volume of data coming from multiple sources and languages in various formats or in free form We discuss the challenges in analyzing social media texts in contrast with traditional documents Research methods in information extraction automatic categorization and clustering automatic

summarization and indexing and statistical machine translation need to be adapted to a new kind of data. This book reviews the current research on Natural Language Processing (NLP) tools and methods for processing the non-traditional information from social media data that is available in large amounts (big data) and shows how innovative NLP approaches can integrate appropriate linguistic information in various fields such as social media monitoring, health care, business intelligence, industry, marketing, and security and defense. We review the existing evaluation metrics for NLP and social media applications and the new efforts in evaluation campaigns or shared tasks on new datasets collected from social media. Such tasks are organized by the Association for Computational Linguistics such as SemEval tasks or by the National Institute of Standards and Technology via the Text REtrieval Conference (TREC) and the Text Analysis Conference (TAC). In the concluding chapter we discuss the importance of this dynamic discipline and its great potential for NLP in the coming decade in the context of changes in mobile technology, cloud computing, and social networking.

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