Synthesis Lectures on
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Kam-Fai Wong · Wenjie Li · Ruifeng Xu · Zheng-sheng Zhang

Introduction to Chinese Natural Language Processing

Springer

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Wenjie Li

Emily M. Bender,Alex Lascarides

Introduction To Chinese Natural Language Processing Wenjie Li:

Introduction to Chinese Natural Language Processing Kam-Fai Wong,Wenjie Li,Ruifeng Xu,Zheng-sheng Zhang,2022-06-01 This book introduces Chinese language processing issues and techniques to readers who already have a basic background in natural language processing NLP Since the major difference between Chinese and Western languages is at the word level the book primarily focuses on Chinese morphological analysis and introduces the concept structure and interword semantics of Chinese words The following topics are covered a general introduction to Chinese NLP Chinese characters morphemes and words and the characteristics of Chinese words that have to be considered in NLP applications Chinese word segmentation unknown word detection word meaning and Chinese linguistic resources interword semantics based on word collocation and NLP techniques for collocation extraction Table of Contents Introduction Words in Chinese Challenges in Chinese Morphological Processing Chinese Word Segmentation Unknown Word Identification Word Meaning Chinese Collocations Automatic Chinese Collocation Extraction Appendix References Author Biographies **Introduction to Chinese Natural Language Processing** Kam-Fai Wong,2010 This book introduces Chinese language processing issues and techniques to readers who already have a basic background in natural language processing NLP Since the major difference between Chinese and Western languages is at the word level the book primarily focuses on Chinese morphological analysis and introduces the concept structure and interword semantics of Chinese words The following topics are covered a general introduction to Chinese NLP Chinese characters morphemes and words and the characteristics of Chinese words that have to be considered in NLP applications Chinese word segmentation unknown word detection word meaning and Chinese linguistic resources interword semantics based on word collocation and NLP techniques for collocation extraction Table of Contents Introduction Words in Chinese Challenges in Chinese Morphological Processing Chinese Word Segmentation Unknown Word Identification Word Meaning Chinese Collocations Automatic Chinese Collocation Extraction Appendix References Author Biographies **Linguistic Fundamentals for Natural Language Processing II** Emily M. Bender,Alex Lascarides,2022-06-01 Meaning is a fundamental concept in Natural Language Processing NLP in the tasks of both Natural Language Understanding NLU and Natural Language Generation NLG This is because the aims of these fields are to build systems that understand what people mean when they speak or write and that can produce linguistic strings that successfully express to people the intended content In order for NLP to scale beyond partial task specific solutions researchers in these fields must be informed by what is known about how humans use language to express and understand communicative intents The purpose of this book is to present a selection of useful information about semantics and pragmatics as understood in linguistics in a way that s accessible to and useful for NLP practitioners with minimal or even no prior training in linguistics

The Routledge Handbook of Chinese Applied Linguistics Chu-Ren Huang,Zhuo Jing-Schmidt,Barbara Meisterernst,2019-03-11 The Routledge Handbook of Chinese Applied Linguistics is written for those wanting to acquire

comprehensive knowledge of China the diaspora and the Sino sphere communities through Chinese language It examines how Chinese language is used in different contexts and how the use of Chinese language affects culture society expression of self and persuasion of others as well as how neurophysiological aspects of language disorder affect how we function and how the advance of technology changes the way the Chinese language is used and perceived The Handbook concentrates on the cultural societal and communicative characteristics of the Chinese language environment Focusing on language use in action in context and in vivo this book intends to lay empirical grounds for collaboration and synergy among different fields

Natural Language Processing for Social Media Anna Atefeh Farzindar,Diana Inkpen,2020-04-10 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 that extract relevant information from a large volume of data coming from multiple sources and languages in various formats or in free form This book will 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 NLP tools and methods for processing the non traditional information from social media data that is available in large amounts and it shows how innovative NLP approaches can integrate appropriate linguistic information in various fields such as social media monitoring health care and business intelligence The book further covers 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 the National Institute of Standards and Technology via the Text REtrieval Conference TREC and the Text Analysis Conference TAC or the Conference and Labs of the Evaluation Forum CLEF In this third edition of the book the authors added information about recent progress in NLP for social media applications including more about the modern techniques provided by deep neural networks DNNs for modeling language and analyzing social media data Natural Language Processing for Social Media, Third Edition Anna Atefeh Farzindar,Diana Inkpen,2022-05-31 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 that extract relevant information from a large volume of data coming from multiple sources and languages in various formats or in free form This book will 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 NLP tools and methods for processing the non traditional information from social media data that is available in large amounts and it shows how innovative NLP approaches can integrate appropriate linguistic information in various fields such as social media monitoring health care and business intelligence The book further covers 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 the National Institute of Standards and Technology via the Text REtrieval Conference TREC and the Text Analysis Conference TAC or the Conference and Labs of the Evaluation Forum CLEF In this third edition of the book the authors added information about recent progress in NLP for social media applications including more about the modern techniques provided by deep neural networks DNNs for modeling language and analyzing social media data

Semi-Supervised Learning and Domain Adaptation in Natural Language Processing Anders Søgaard,2022-05-31 This book introduces basic supervised learning algorithms applicable to natural language processing NLP and shows how the performance of these algorithms can often be improved by exploiting the marginal distribution of large amounts of unlabeled data One reason for that is data sparsity i e the limited amounts of data we have available in NLP However in most real world NLP applications our labeled data is also heavily biased This book introduces extensions of supervised learning algorithms to cope with data sparsity and different kinds of sampling bias This book is intended to be both readable by first year students and interesting to the expert audience My intention was to introduce what is necessary to appreciate the major challenges we face in contemporary NLP related to data sparsity and sampling bias without wasting too much time on details about supervised learning algorithms or particular NLP applications I use text classification part of speech tagging and dependency parsing as running examples and limit myself to a small set of cardinal learning algorithms I have worried less about theoretical guarantees this algorithm never does too badly than about useful rules of thumb in this case this algorithm may perform really well In NLP data is so noisy biased and non stationary that few theoretical guarantees can be established and we are typically left with our gut feelings and a catalogue of crazy ideas I hope this book will provide its readers with both Throughout the book we include snippets of Python code and empirical evaluations when relevant **Natural Language Processing for Historical Texts** Michael Piotrowski,2022-05-31 More and more historical texts are becoming available in digital form Digitization of paper documents is motivated by the aim of preserving cultural heritage and making it more accessible both to laypeople and scholars As digital images cannot be searched for text digitization projects increasingly strive to create digital text which can be searched and otherwise automatically processed in addition to facsimiles Indeed the emerging field of digital humanities heavily relies on the availability of digital text for its studies Together with the increasing availability of historical texts in digital form there is a growing interest in applying natural language processing NLP methods

and tools to historical texts However the specific linguistic properties of historical texts the lack of standardized orthography in particular pose special challenges for NLP This book aims to give an introduction to NLP for historical texts and an overview of the state of the art in this field The book starts with an overview of methods for the acquisition of historical texts scanning and OCR discusses text encoding and annotation schemes and presents examples of corpora of historical texts in a variety of languages The book then discusses specific methods such as creating part of speech taggers for historical languages or handling spelling variation A final chapter analyzes the relationship between NLP and the digital humanities Certain recently emerging textual genres such as SMS social media and chat messages or newsgroup and forum postings share a number of properties with historical texts for example nonstandard orthography and grammar and profuse use of abbreviations The methods and techniques required for the effective processing of historical texts are thus also of interest for research in other domains Table of Contents Introduction NLP and Digital Humanities Spelling in Historical Texts Acquiring Historical Texts Text Encoding and Annotation Schemes Handling Spelling Variation NLP Tools for Historical Languages Historical Corpora Conclusion Bibliography *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 **Bayesian Analysis in Natural Language Processing** Shay Cohen,2019-04-09 Natural language processing NLP went through a profound transformation in the mid 1980s when it shifted to make heavy use of corpora and data driven techniques to

analyze language Since then the use of statistical techniques in NLP has evolved in several ways One such example of evolution took place in the late 1990s or early 2000s when full fledged Bayesian machinery was introduced to NLP This Bayesian approach to NLP has come to accommodate various shortcomings in the frequentist approach and to enrich it especially in the unsupervised setting where statistical learning is done without target prediction examples In this book we cover the methods and algorithms that are needed to fluently read Bayesian learning papers in NLP and to do research in the area These methods and algorithms are partially borrowed from both machine learning and statistics and are partially developed in house in NLP We cover inference techniques such as Markov chain Monte Carlo sampling and variational inference Bayesian estimation and nonparametric modeling In response to rapid changes in the field this second edition of the book includes a new chapter on representation learning and neural networks in the Bayesian context We also cover fundamental concepts in Bayesian statistics such as prior distributions conjugacy and generative modeling Finally we review some of the fundamental modeling techniques in NLP such as grammar modeling neural networks and representation learning and their use with Bayesian analysis **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 *Learning to Rank for Information Retrieval and Natural Language Processing* Hang Li,2022-11-10 Learning to rank refers to machine learning techniques for training the 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 the problem recently and significant progress has been made This lecture gives an introduction to the area including the fundamental problems existing 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 SVM Neural Network based approaches The author also introduces some popular learning to rank methods in details These include PRank OC SVM Ranking SVM IR SVM GBRank RankNet LambdaRank ListNet ListMLE AdaRank SVM MAP SoftRank 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 Introduction 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 **Bayesian Analysis in Natural Language Processing, Second Edition** Shay Cohen,2022-05-31 Natural language processing NLP went through a profound transformation in the mid 1980s when it shifted to make heavy use of corpora and data driven techniques to analyze language Since then the use of statistical techniques in NLP has evolved in several ways One such example of evolution took place in the late 1990s or early 2000s when full fledged Bayesian machinery was introduced to NLP This Bayesian approach to NLP has come to accommodate various shortcomings in the frequentist approach and to enrich it especially in the unsupervised setting where statistical learning is done without target prediction examples In this

book we cover the methods and algorithms that are needed to fluently read Bayesian learning papers in NLP and to do research in the area These methods and algorithms are partially borrowed from both machine learning and statistics and are partially developed in house in NLP We cover inference techniques such as Markov chain Monte Carlo sampling and variational inference Bayesian estimation and nonparametric modeling In response to rapid changes in the field this second edition of the book includes a new chapter on representation learning and neural networks in the Bayesian context We also cover fundamental concepts in Bayesian statistics such as prior distributions conjugacy and generative modeling Finally we review some of the fundamental modeling techniques in NLP such as grammar modeling neural networks and representation learning and their use with Bayesian analysis *Explainable Natural Language Processing* Anders Søgaard,2022-06-01 This book presents a taxonomy framework and survey of methods relevant to explaining the decisions and analyzing the inner workings of Natural Language Processing NLP models The book is intended to provide a snapshot of Explainable NLP though the field continues to rapidly grow The book is intended to be both readable by first year M Sc students and interesting to an expert audience The book opens by motivating a focus on providing a consistent taxonomy pointing out inconsistencies and redundancies in previous taxonomies It goes on to present i a taxonomy or framework for thinking about how approaches to explainable NLP relate to one another ii brief surveys of each of the classes in the taxonomy with a focus on methods that are relevant for NLP and iii a discussion of the inherent limitations of some classes of methods as well as how to best evaluate them Finally the book closes by providing a list of resources for further research on explainability **Embeddings in Natural Language Processing** Mohammad Taher Pilehvar,Jose Camacho-Collados,2022-05-31 Embeddings have undoubtedly been one of the most influential research areas in Natural Language Processing NLP Encoding information into a low dimensional vector representation which is easily integrable in modern machine learning models has played a central role in the development of NLP Embedding techniques initially focused on words but the attention soon started to shift to other forms from graph structures such as knowledge bases to other types of textual content such as sentences and documents This book provides a high level synthesis of the main embedding techniques in NLP in the broad sense The book starts by explaining conventional word vector space models and word embeddings e g Word2Vec and GloVe and then moves to other types of embeddings such as word sense sentence and document and graph embeddings The book also provides an overview of recent developments in contextualized representations e g ELMo and BERT and explains their potential in NLP Throughout the book the reader can find both essential information for understanding a certain topic from scratch and a broad overview of the most successful techniques developed in the literature 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 Introduction to Arabic Natural Language Processing Nizar Y. Habash,2022-06-01 This book provides system developers and researchers in natural language processing and computational linguistics with the necessary background information for working with the Arabic language The goal is to introduce Arabic linguistic phenomena and review the state of the art in Arabic processing The book discusses Arabic script phonology orthography morphology syntax and semantics with a final chapter on machine translation issues The chapter sizes correspond more or less to what is linguistically distinctive about Arabic with morphology getting the lion s share followed by Arabic script No previous knowledge of Arabic is needed This book is designed for computer scientists and linguists alike The focus of the book is on Modern Standard Arabic however notes on practical issues related to Arabic dialects and languages written in the Arabic script are presented in different chapters Table of Contents What is Arabic Arabic Script Arabic Phonology and Orthography Arabic Morphology Computational Morphology Tasks Arabic Syntax A Note on Arabic Semantics A Note on Arabic and Machine Translation **Validity, Reliability, and Significance** Stefan Riezler,Michael Hagmann,2022-06-01 Empirical methods are means to answering methodological questions of empirical sciences by statistical techniques The methodological questions addressed in this book include the problems of validity reliability and significance In the case of machine learning these correspond to the questions of whether a model predicts what it purports to predict whether a model s performance is consistent across replications and whether a performance difference between two models is due to chance respectively The goal of this book is to answer these questions by concrete statistical tests that can be applied to assess validity reliability and significance of data annotation and machine learning prediction in the fields of NLP and data science Our focus is on model based empirical methods where data annotations and model predictions are treated as training data for interpretable probabilistic models from the well understood families of generalized additive models GAMs and linear mixed effects models LMEMs Based on the interpretable parameters of the trained GAMs or LMEMs the book presents model based statistical tests such as a validity test that allows detecting circular features that circumvent learning Furthermore the book discusses a reliability coefficient using variance decomposition based on random effect parameters of LMEMs Last a significance test based on the likelihood ratio of nested LMEMs trained on the performance scores of two machine learning models is shown to naturally allow the inclusion of variations in meta

parameter settings into hypothesis testing and further facilitates a refined system comparison conditional on properties of input data This book can be used as an introduction to empirical methods for machine learning in general with a special focus on applications in NLP and data science The book is self contained with an appendix on the mathematical background on GAMs and LMEMs and with an accompanying webpage including R code to replicate experiments presented in the book

Pretrained Transformers for Text Ranking Jimmy Lin,Rodrigo Nogueira,Andrew Yates,2022-06-01 The goal of text ranking is to generate an ordered list of texts retrieved from a corpus in response to a query Although the most common formulation of text ranking is search instances of the task can also be found in many natural language processing NLP applications This book provides an overview of text ranking with neural network architectures known as transformers of which BERT Bidirectional Encoder Representations from Transformers is the best known example The combination of transformers and self supervised pretraining has been responsible for a paradigm shift in NLP information retrieval IR and beyond This book provides a synthesis of existing work as a single point of entry for practitioners who wish to gain a better understanding of how to apply transformers to text ranking problems and researchers who wish to pursue work in this area It covers a wide range of modern techniques grouped into two high level categories transformer models that perform reranking inmulti stage architectures and dense retrieval techniques that perform ranking directly Two themes pervade the book techniques for handling long documents beyond typical sentence by sentence processing in NLP and techniques for addressing the tradeoff between effectiveness i e result quality and efficiency e g query latency model and index size Although transformer architectures and pretraining techniques are recent innovations many aspects of how they are applied to text ranking are relatively well understood and represent mature techniques However there remain many open research questions and thus in addition to laying out the foundations of pretrained transformers for text ranking this book also attempts to prognosticate where the field is heading **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

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