

Anders Søgaard

Semi-Supervised Learning and Domain Adaptation in Natural Language Processing

Semi Supervised Learning And Domain Adaptation In Natural Language Processing Synthesis Lectures On Human Language Technologies

Žižka, Jan



Semi Supervised Learning And Domain Adaptation In Natural Language Processing Synthesis Lectures On Human Language Technologies:

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 Introduction to Natural Language Processing Jacob Eisenstein, 2019-10-01 A survey of computational methods for understanding generating and manipulating human language which offers a synthesis of classical representations and algorithms with contemporary machine learning techniques This textbook provides a technical perspective on natural language processing methods for building computer software that understands generates and manipulates human language It emphasizes contemporary data driven approaches focusing on techniques from supervised and unsupervised machine learning The first section establishes a foundation in machine learning by building a set of tools that will be used throughout the book and applying them to word based textual analysis The second section introduces structured representations of language including sequences trees and graphs The third section explores different approaches to the representation and analysis of linguistic meaning ranging from formal logic to neural word embeddings The final section offers chapter length treatments of three transformative applications of natural language processing information extraction machine translation and text generation End of chapter exercises include both paper and pencil analysis and software implementation The text synthesizes and distills a broad and diverse research literature linking contemporary machine learning techniques with the field s linguistic and computational foundations It is suitable for use in advanced undergraduate and graduate level courses and as a reference for software engineers and data scientists Readers should have a background in computer programming and college level mathematics

After mastering the material presented students will have the technical skill to build and analyze novel natural language processing systems and to understand the latest research in the field

Neural Network Methods in Natural Language Processing Yoav Goldberg, 2017-04-17 Neural networks are a family of powerful machine learning models and this book focuses on their application 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

Linguistic Fundamentals for Natural Language Processing Emily M. Bender, 2022-05-31 Many NLP tasks have at their core a subtask of extracting the dependencies who did what to whom from natural language sentences This task can be understood as the inverse of the problem solved in different ways by diverse human languages namely how to indicate the relationship between different parts of a sentence Understanding how languages solve the problem can be extremely useful in both feature design and error analysis in the application of machine learning to NLP Likewise understanding cross linguistic variation can be important for the design of MT systems and other multilingual applications The purpose of this book is to present in a succinct and accessible fashion information about the morphological and syntactic structure of human languages that can be useful in creating more linguistically sophisticated more language independent and thus more successful NLP systems Table of Contents Acknowledgments Introduction motivation Morphology Introduction Morphophonology Morphosyntax Syntax Introduction Parts of speech Heads arguments and adjuncts Argument types and grammatical functions Mismatches between syntactic position and semantic roles Resources Bibliography Author s Biography General Index Index of Languages

Artificial Intelligence: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-12-12 Ongoing advancements in modern technology have led to significant developments in artificial intelligence With the numerous applications available it becomes imperative to conduct research and make further progress in this field Artificial Intelligence Concepts Methodologies Tools and Applications provides a comprehensive overview of the latest breakthroughs and recent progress in artificial intelligence Highlighting relevant technologies uses and techniques across various industries and settings this publication is a pivotal reference source for researchers professionals academics upper level students and practitioners interested in emerging perspectives in the field of artificial intelligence

Ontology-Based Interpretation of

Natural Language Philipp Cimiano, Christina Unger, John McCrae, 2022-06-01 For humans understanding a natural language sentence or discourse is so effortless that we hardly ever think about it For machines however the task of interpreting natural language especially grasping meaning beyond the literal content has proven extremely difficult and requires a large amount of background knowledge This book focuses on the interpretation of natural language with respect to specific domain knowledge captured in ontologies The main contribution is an approach that puts ontologies at the center of the interpretation process This means that ontologies not only provide a formalization of domain knowledge necessary for interpretation but also support and guide the construction of meaning representations We start with an introduction to ontologies and demonstrate how linguistic information can be attached to them by means of the ontology lexicon model These lexica then serve as basis for the automatic generation of grammars which we use to compositionally construct meaning representations that conform with the vocabulary of an underlying ontology As a result the level of representational granularity is not driven by language but by the semantic distinctions made in the underlying ontology and thus by distinctions that are relevant in the context of a particular domain We highlight some of the challenges involved in the construction of ontology based meaning representations and show how ontologies can be exploited for ambiguity resolution and the interpretation of temporal expressions Finally we present a question answering system that combines all tools and techniques introduced throughout the book in a real world application and sketch how the presented approach can scale to larger multi domain scenarios in the context of the Semantic Web Table of Contents List of Figures Preface

Acknowledgments Introduction Ontologies Linguistic Formalisms Ontology Lexica Grammar Generation Putting Everything Together Ontological Reasoning for Ambiguity Resolution Temporal Interpretation Ontology Based Interpretation for Question Answering Conclusion Bibliography Authors Biographies

Modern Computational Models of Semantic Discovery in Natural Language Žižka, Jan, 2015-07-17 Language that is oral or written content that references abstract concepts in subtle ways is what sets us apart as a species and in an age defined by such content language has become both the fuel and the currency of our modern information society This has posed a vexing new challenge for linguists and engineers working in the field of language processing how do we parse and process not just language itself but language in vast overwhelming quantities Modern Computational Models of Semantic Discovery in Natural Language compiles and reviews the most prominent linguistic theories into a single source that serves as an essential reference for future solutions to one of the most important challenges of our age This comprehensive publication benefits an audience of students and professionals researchers and practitioners of linguistics and language discovery This book includes a comprehensive range of topics and chapters covering digital media social interaction in online environments text and data mining language processing and translation and contextual documentation among others

Recognizing Textual Entailment Ido Dagan, Dan Roth, Fabio Zanzotto, Mark Sammons, 2022-06-01 In the last few years a number of NLP researchers have developed and

participated in the task of Recognizing Textual Entailment RTE This task encapsulates Natural Language Understanding capabilities within a very simple interface recognizing when the meaning of a text snippet is contained in the meaning of a second piece of text This simple abstraction of an exceedingly complex problem has broad appeal partly because it can be conceived also as a component in other NLP applications from Machine Translation to Semantic Search to Information Extraction It also avoids commitment to any specific meaning representation and reasoning framework broadening its appeal within the research community This level of abstraction also facilitates evaluation a crucial component of any technological advancement program This book explains the RTE task formulation adopted by the NLP research community and gives a clear overview of research in this area It draws out commonalities in this research detailing the intuitions behind dominant approaches and their theoretical underpinnings This book has been written with a wide audience in mind but is intended to inform all readers about the state of the art in this fascinating field to give a clear understanding of the principles underlying RTE research to date and to highlight the short and long term research goals that will advance this technology

Organic Computing Sven Tomforde, Bernhard Sick, 2019-04-10 This book presents the results of the OC DDC 2018 Successful participants have been invited to extend their abstracts submitted to the event towards a full book chapter by taking reviews and feedback received at the event in Wurzburg into account The participants prepared an initial extended abstract helped to perform a sophisticated review process and finally came up with interesting articles summarising their current work in the context of Organic Computing Hence the book also gives an overview of corresponding research activities in the field in Germany for the year 2018 The collection of contributions reflects the diversity of the different aspects of Organic Computing In the following we outline the contributions contained in this book

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

Web Corpus Construction Roland Schäfer,Felix Bildhauer,2022-05-31 The World Wide Web constitutes the largest existing source of texts written in a great variety of languages A feasible and sound way of exploiting this data for linguistic research is to compile a static corpus for a given language There are several advantages of this approach i Working with such corpora obviates the problems encountered when using Internet search engines in quantitative linguistic research such as non transparent ranking algorithms ii Creating a corpus from web data is virtually free iii The size of corpora compiled from the WWW may exceed by several orders of magnitudes the size of language resources offered elsewhere iv The data is locally available to the user and it can be linguistically post processed and queried with the tools preferred by her him This book addresses the main practical tasks in the creation of web corpora up to giga token size Among these tasks are the sampling process i e web crawling and the usual cleanups including boilerplate removal and removal of duplicated content Linguistic processing and problems with linguistic processing coming from the different kinds of noise in web corpora are also covered Finally the authors show how web corpora can be evaluated and compared to other corpora such as traditionally compiled corpora For additional material please visit the companion website sites

morganclaypool com wcc Table of Contents Preface Acknowledgments Web Corpora Data Collection Post Processing Linguistic Processing Corpus Evaluation and Comparison Bibliography Authors Biographies Automated Grammatical Error Detection for Language Learners

Claudia Leacock,Martin Chodorow,Michael Gamon,Joel Tetreault,2014-02-01 It has been estimated that over a billion people are using or learning English as a second or foreign language and the numbers are growing not only for English but for other languages as well These language learners provide a burgeoning market for tools that help identify and correct learners writing errors Unfortunately the errors targeted by typical commercial proofreading tools do not include those aspects of a second language that are hardest to learn This volume describes the types of constructions English language learners find most difficult constructions containing prepositions articles and collocations It provides an overview of the automated approaches that have been developed to identify and correct these and other classes

of learner errors in a number of languages Error annotation and system evaluation are particularly important topics in grammatical error detection because there are no commonly accepted standards Chapters in the book describe the options available to researchers recommend best practices for reporting results and present annotation and evaluation schemes The final chapters explore recent innovative work that opens new directions for research It is the authors hope that this volume will continue to contribute to the growing interest in grammatical error detection by encouraging researchers to take a closer look at the field and its many challenging problems

Automated Grammatical Error Detection for Language Learners, Second Edition Claudia Leacock, Michael Gamon, Joel Alejandro Mejia, Martin Chodorow, 2022-06-01 It has been estimated that over a billion people are using or learning English as a second or foreign language and the numbers are growing not only for English but for other languages as well These language learners provide a burgeoning market for tools that help identify and correct learners writing errors Unfortunately the errors targeted by typical commercial proofreading tools do not include those aspects of a second language that are hardest to learn This volume describes the types of constructions English language learners find most difficult constructions containing prepositions articles and collocations It provides an overview of the automated approaches that have been developed to identify and correct these and other classes of learner errors in a number of languages Error annotation and system evaluation are particularly important topics in grammatical error detection because there are no commonly accepted standards Chapters in the book describe the options available to researchers recommend best practices for reporting results and present annotation and evaluation schemes The final chapters explore recent innovative work that opens new directions for research It is the authors hope that this volume will continue to contribute to the growing interest in grammatical error detection by encouraging researchers to take a closer look at the field and its many challenging problems

Computational Linguistics and Intelligent Text Processing Alexander Gelbukh, 2015-04-09 The two volumes LNCS 9041 and 9042 constitute the proceedings of the 16th International Conference on Computational Linguistics and Intelligent Text Processing CICLing 2015 held in Cairo Egypt in April 2015 The total of 95 full papers presented was carefully reviewed and selected from 329 submissions They were organized in topical sections on grammar formalisms and lexical resources morphology and chunking syntax and parsing anaphora resolution and word sense disambiguation semantics and dialogue machine translation and multilingualism sentiment analysis and emotion detection opinion mining and social network analysis natural language generation and text summarization information retrieval question answering and information extraction text classification speech processing and applications

Explainable Natural Language Processing Anders Søgaard, 2021-09-22 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

Advances in Knowledge Discovery and Data Mining Tru Cao,Ee-Peng Lim,Zhi-Hua Zhou,Tu-Bao Ho,David Cheung,Hiroshi Motoda,2015-05-08 This two volume set LNAI 9077 9078 constitutes the refereed proceedings of the 19th Pacific Asia Conference on Advances in Knowledge Discovery and Data Mining PAKDD 2015 held in Ho Chi Minh City Vietnam in May 2015 The proceedings contain 117 paper carefully reviewed and selected from 405 submissions They have been organized in topical sections named social networks and social media classification machine learning applications novel methods and algorithms opinion mining and sentiment analysis clustering outlier and anomaly detection mining uncertain and imprecise data mining temporal and spatial data feature extraction and selection mining heterogeneous high dimensional and sequential data entity resolution and topic modeling itemset and high performance data mining and recommendations

Нейросетевые методы в обработке естественного языка Йоав Гольдберг,2022-01-29 Natural Language Processing NLP

Large-scale Semi-supervised Learning for Natural Language Processing Shane Anthony Bergsma,2010

Transfer Learning for Natural Language Processing Paul Azunre,2021-08-31 Build custom NLP models in record time by adapting pre trained machine learning models to solve specialized problems Summary In Transfer Learning for Natural Language Processing you will learn Fine tuning pretrained models with new domain data Picking the right model to reduce resource usage Transfer learning for neural network architectures Generating text with generative pretrained transformers Cross lingual transfer learning with BERT Foundations for exploring NLP academic literature Training deep learning NLP models from scratch is costly time consuming and requires massive amounts of data In Transfer Learning for Natural Language Processing DARPA researcher Paul Azunre reveals cutting edge transfer learning techniques that apply customizable pretrained models to your own NLP architectures You ll learn how to use transfer learning to deliver state of the art results for language comprehension even when working with limited label data Best of all you ll save on training time and computational costs Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Build custom NLP models in record time even with limited datasets Transfer learning is a machine learning technique for adapting pretrained machine learning models to solve specialized problems This powerful approach has revolutionized natural language processing driving improvements in machine translation business analytics and natural language generation About the book Transfer Learning for Natural Language Processing teaches you to create powerful NLP solutions quickly by building on existing pretrained models This instantly useful book provides crystal clear explanations of the concepts you need to grok transfer learning along

with hands on examples so you can practice your new skills immediately As you go you ll apply state of the art transfer learning methods to create a spam email classifier a fact checker and more real world applications What s inside Fine tuning pretrained models with new domain data Picking the right model to reduce resource use Transfer learning for neural network architectures Generating text with pretrained transformers About the reader For machine learning engineers and data scientists with some experience in NLP About the author Paul Azunre holds a PhD in Computer Science from MIT and has served as a Principal Investigator on several DARPA research programs Table of Contents PART 1 INTRODUCTION AND OVERVIEW 1 What is transfer learning 2 Getting started with baselines Data preprocessing 3 Getting started with baselines Benchmarking and optimization PART 2 SHALLOW TRANSFER LEARNING AND DEEP TRANSFER LEARNING WITH RECURRENT NEURAL NETWORKS RNNs 4 Shallow transfer learning for NLP 5 Preprocessing data for recurrent neural network deep transfer learning experiments 6 Deep transfer learning for NLP with recurrent neural networks PART 3 DEEP TRANSFER LEARNING WITH TRANSFORMERS AND ADAPTATION STRATEGIES 7 Deep transfer learning for NLP with the transformer and GPT 8 Deep transfer learning for NLP with BERT and multilingual BERT 9 ULMFiT and knowledge distillation adaptation strategies 10 ALBERT adapters and multitask adaptation strategies 11 Conclusions

Semi-supervised Learning for Natural Language Processing ,2009

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