

Philipp Cimiano · Christina Unger
John McCrae *Editors*

Ontology-Based Interpretation of Natural Language

Ontology Based Interpretation Of Natural Language Synthesis Lectures On Human Language Technologies

**Claudia Leacock, Michael Gamon, Joel
Alejandro Mejia, Martin Chodorow**



Ontology Based Interpretation Of Natural Language Synthesis Lectures On Human Language Technologies:

Ontology-Based Interpretation of Natural Language Philipp Cimiano, Christina Unger, John McCrae, 2014-03-01 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 lemon 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

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 lemon 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

Semantic Similarity from Natural Language and Ontology Analysis Sébastien Harispe, Sylvie Ranwez, Stefan janaqi, Jacky Montmain, 2022-05-31 Artificial Intelligence federates numerous scientific fields in the aim of developing machines able to assist human operators performing complex treatments most of which demand high cognitive skills e g learning or decision processes Central to this quest is to give machines the ability to estimate the likeness or similarity between things in the way human beings estimate the similarity between stimuli In this context this book focuses on semantic measures approaches designed for comparing semantic entities such as units of language e g words sentences or concepts and instances defined into knowledge bases The aim of these measures is to assess the similarity or relatedness of such semantic entities by taking into account their semantics i e their meaning intuitively the words tea and coffee which both refer to stimulating beverage will be estimated to be more semantically similar than the words toffee confection and coffee despite that the last pair has a higher syntactic similarity The two state of the art approaches for estimating and quantifying semantic similarities relatedness of semantic entities are presented in detail the first one relies on corpora analysis and is based on Natural Language Processing techniques and semantic models while the second is based on more or less formal computer readable and workable forms of knowledge such as semantic networks thesauri or ontologies Semantic measures are widely used today to compare units of language concepts instances or even resources indexed by them e g documents genes They are central elements of a large variety of Natural Language Processing applications and knowledge based treatments and have therefore naturally been subject to intensive and interdisciplinary research efforts during last decades Beyond a simple inventory and categorization of existing measures the aim of this monograph is to convey novices as well as researchers of these domains toward a better understanding of semantic similarity estimation and more generally semantic measures To this end we propose an in depth characterization of existing proposals by discussing their features the assumptions on which they are based and empirical results regarding their performance in particular applications By answering these questions and by providing a detailed discussion on the foundations of semantic measures our aim is to give the reader key knowledge required to i select the more relevant methods according to a particular usage context ii understand the challenges offered to this field of study iii distinguish room of improvements for state of the art approaches and iv stimulate creativity toward the development of new approaches In this aim several definitions theoretical and practical details as well as concrete applications are presented *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 The Routledge Handbook of Lexicography

Pedro A. Fuertes-Olivera, 2017-10-02 The Routledge Handbook of Lexicography provides a comprehensive overview of the major approaches to lexicography and their applications within the field This Handbook features key case studies and cutting edge contributions from an international range of practitioners teachers and researchers Analysing the theory and practice of compiling dictionaries within the digital era the 47 chapters address the core issues of The foundations of lexicography and its interactions with other disciplines including Corpus Linguistics and Information Science Types of dictionaries for purposes such as translation and teaching Innovative specialised dictionaries such as the Oenolex wine dictionary and the Online Dictionary of New Zealand Sign Language Lexicography and world languages including Arabic Hindi Russian Chinese and Indonesian The future of lexicography including the use of the Internet user participation and dictionary portals The Routledge Handbook of Lexicography is essential reading for researchers and students working in this area **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

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

Artificial Intelligence in Daily Life Raymond S. T. Lee,2020-08-22 Given the exponential growth of Artificial Intelligence AI over the past few decades AI and its related applications have become part of daily life in ways that we could never have dreamt of only a century ago Our

routines have been changed beyond measure by robotics and AI which are now used in a vast array of services Though AI is still in its infancy we have already benefited immensely This book introduces readers to basic Artificial Intelligence concepts and helps them understand the relationship between AI and daily life In the interest of clarity the content is divided into four major parts Part I AI Concepts presents fundamental concepts of and information on AI while Part II AI Technology introduces readers to the five core AI Technologies that provide the building blocks for various AI applications namely Machine Learning ML Data Mining DM Computer Vision CV Natural Languages Processing NLP and Ontology based Search Engine OSE In turn Part III AI Applications reviews major contemporary applications that are impacting our ways of life working styles and environment ranging from intelligent agents and robotics to smart campus and smart city projects Lastly Part IV Beyond AI addresses related topics that are vital to the future development of AI It also discusses a number of critical issues such as AI ethics and privacy the development of a conscious mind and autonomous robotics in our daily lives **The**

Semantic Web - ISWC 2016 Paul Groth,Elena Simperl,Alasdair Gray,Marta Sabou,Markus Krötzsch,Freddy Lecue,Fabian Flöck,Yolanda Gil,2016-10-05 The two volume set LNCS 9981 and 9982 constitutes the refereed proceedings of the 15th International Semantic Web Conference ISWC 2016 which was held in Kobe Japan in October 2016 The 75 full papers presented in these proceedings were carefully reviewed and selected from 326 submissions The International Semantic Web Conference is the premier forum for Semantic Web research where cutting edge scientific results and technological innovations are presented where problems and solutions are discussed and where the future of this vision is being developed It brings together specialists in fields such as artificial intelligence databases social networks distributed computing Web engineering information systems human computer interaction natural language processing and the social sciences The Research Track solicited novel and significant research contributions addressing theoretical analytical empirical and practical aspects of the Semantic Web The Applications Track solicited submissions exploring the benefits and challenges of applying semantic technologies in concrete practical applications in contexts ranging from industry to government and science The newly introduced Resources Track sought submissions providing a concise and clear description of a resource and its expected usage Traditional resources include ontologies vocabularies datasets benchmarks and replication studies services and software Besides more established types of resources the track solicited submissions of new types of resources such as ontology design patterns crowdsourcing task designs workflows methodologies and protocols and measures

Grammatical Inference for Computational Linguistics Jeffrey Heinz,Colin de la Higuera,Menno van Zaanen,2022-06-01 This book provides a thorough introduction to the subfield of theoretical computer science known as grammatical inference from a computational linguistic perspective Grammatical inference provides principled methods for developing computationally sound algorithms that learn structure from strings of symbols The relationship to computational linguistics is natural because many research problems in computational linguistics are learning problems on words phrases and sentences

What algorithm can take as input some finite amount of data for instance a corpus annotated or otherwise and output a system that behaves correctly on specific tasks Throughout the text the key concepts of grammatical inference are interleaved with illustrative examples drawn from problems in computational linguistics Special attention is paid to the notion of learning bias In the context of computational linguistics such bias can be thought to reflect common ideally universal properties of natural languages This bias can be incorporated either by identifying a learnable class of languages which contains the language to be learned or by using particular strategies for optimizing parameter values Examples are drawn largely from two linguistic domains phonology and syntax which span major regions of the Chomsky Hierarchy from regular to context sensitive classes The conclusion summarizes the major lessons and open questions that grammatical inference brings to computational linguistics Table of Contents List of Figures List of Tables Preface Studying Learning Formal Learning Learning Regular Languages Learning Non Regular Languages Lessons Learned and Open Problems Bibliography Author Biographies

Automatic Detection of Verbal Deception Eileen Fitzpatrick,Joan

Bachenko,Tommaso Fornaciari,2022-05-31 The attempt to spot deception through its correlates in human behavior has a long history Until recently these efforts have concentrated on identifying individual cues that might occur with deception However with the advent of computational means to analyze language and other human behavior we now have the ability to determine whether there are consistent clusters of differences in behavior that might be associated with a false statement as opposed to a true one While its focus is on verbal behavior this book describes a range of behaviors physiological gestural as well as verbal that have been proposed as indicators of deception An overview of the primary psychological and cognitive theories that have been offered as explanations of deceptive behaviors gives context for the description of specific behaviors The book also addresses the differences between data collected in a laboratory and real world data with respect to the emotional and cognitive state of the liar It discusses sources of real world data and problematic issues in its collection and identifies the primary areas in which applied studies based on real world data are critical including police security border crossing customs and asylum interviews congressional hearings financial reporting legal depositions human resource evaluation predatory communications that include Internet scams identity theft and fraud and false product reviews Having established the background this book concentrates on computational analyses of deceptive verbal behavior that have enabled the field of deception studies to move from individual cues to overall differences in behavior The computational work is organized around the features used for classification from gram through syntax to predicate argument and rhetorical structure The book concludes with a set of open questions that the computational work has generated

Knowledge Engineering and Knowledge Management Mehwish Alam,Marco Rospocher,Marieke van Erp,Laura Hollink,Genet Asefa Gesese,2024-11-22 This book constitutes the refereed proceedings of the 24th International Conference on Knowledge Engineering and Knowledge Management EKAW 2024 held in Amsterdam The Netherlands during November 26 28 2024 The

28 full papers presented together were carefully reviewed and selected from 115 submissions They focus on all aspects of knowledge in constructing systems and services for the semantic web knowledge management knowledge discovery information integration natural language processing intelligent systems e business e health humanities cultural heritage and beyond **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 **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 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

Transactions on Large-Scale Data- and Knowledge-Centered Systems LIII

Abdelkader Hameurlain,A Min Tjoa,2023-02-08 The LNCS journal Transactions on Large scale Data and Knowledge centered Systems focuses on data management knowledge discovery and knowledge processing which are core and hot topics in computer science Since the 1990s the Internet has become the main driving force behind application development in all domains An increase in the demand for resource sharing e g computing resources services metadata data sources across different sites connected through networks has led to an evolution of data and knowledge management systems from centralized systems to decentralized systems enabling large scale distributed applications providing high scalability This the 53rd issue of Transactions on Large scale Data and Knowledge centered Systems contains six fully revised selected regular papers Topics covered include time series management from edge to cloud segmentation for time series representation similarity research semantic similarity in a taxonomy linked data semantic distance linguistics informed natural language processing graph neural network protected features imbalanced data causal consistency in distributed databases actor model and elastic horizontal scalability

Bayesian Analysis in Natural Language Processing Shay Cohen,2022-11-10 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 for various shortcomings in the frequentist approach and to enrich it especially in the unsupervised setting where statistical learning is done without target prediction examples 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 We also cover fundamental concepts in Bayesian statistics such as prior distributions conjugacy and generative modeling Finally we cover some of the fundamental modeling techniques in NLP such as grammar modeling and their use with Bayesian analysis

Strategic Innovative Marketing
Androniki Kavoura,Damianos P. Sakas,Petros Tomaras,2017-06-02 This proceedings volume presents the latest on the theoretical approach of the contemporary issues evolved in strategic marketing and the integration of theory and practice It highlights strategic research and innovative activities in marketing The contributed chapters are concerned with using modern qualitative and quantitative techniques based on information technology used to manage and analyze business data to discover hidden knowledge and to introduce intelligence into marketing processes This allows for a focus on innovative applications in all aspects of marketing of computerized technologies related to data analytics predictive analytics and modeling business intelligence and knowledge engineering in order to demonstrate new ways of uncovering hidden knowledge and supporting marketing decisions with evidence based intelligent tools The chapters from the proceedings of the 5th International Conference on Strategic Innovative Marketing 2016 cover areas such as social media marketing innovation sustainable marketing customer satisfaction strategies customer relationship management marketing research and analytics The papers have been written by scientists researchers practitioners and students that demonstrate a special orientation in strategic marketing all of whom aspire to be ahead of the curve based on the pillars of innovation This proceedings volume shares their recent contributions to the field and showcases their exchange of insights on strategic issues in the science of innovation marketing

Encyclopedia of Bioinformatics and Computational Biology ,2018-08-21
Encyclopedia of Bioinformatics and Computational Biology ABC of Bioinformatics Three Volume Set combines elements of computer science information technology mathematics statistics and biotechnology providing the methodology and in silico solutions to mine biological data and processes The book covers Theory Topics and Applications with a special focus on Integrative omics and Systems Biology The theoretical methodological underpinnings of BCB including phylogeny are covered as are more current areas of focus such as translational bioinformatics cheminformatics and environmental informatics Finally Applications provide guidance for commonly asked questions This major reference work spans basic and cutting edge methodologies authored by leaders in the field providing an invaluable resource for students scientists professionals in research institutes and a broad swath of researchers in biotechnology and the biomedical and pharmaceutical industries Brings together information from computer science information technology mathematics statistics and biotechnology Written and reviewed by leading experts in the field providing a unique and authoritative resource Focuses on the main theoretical and methodological concepts before expanding on specific topics and applications Includes

interactive images multimedia tools and crosslinking to further resources and databases **Handbook of Artificial intelligence in psychology** Farzin Forouzani Fard, 2024-01-14 In the vast expanse of human understanding few domains captivate and baffle as much as the interplay between artificial intelligence AI and the intricacies of human psychology It signifies the merging of two separate realms each teeming with its unique complexities mysterious enigmas and profound implications Our journey through this book manifests as an exploration a quest to reveal the intricate dimensions of intellect language emotions cognition character and neuropsychology in this AI defined era

Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Ontology Based Interpretation Of Natural Language Synthesis Lectures On Human Language Technologies**

In some sort of inundated with screens and the cacophony of immediate conversation, the profound energy and emotional resonance of verbal art frequently diminish in to obscurity, eclipsed by the continuous barrage of sound and distractions. However, nestled within the lyrical pages of **Ontology Based Interpretation Of Natural Language Synthesis Lectures On Human Language Technologies**, a captivating work of literary elegance that pulses with organic thoughts, lies an unforgettable journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this interesting opus books readers on a psychological odyssey, gently revealing the latent potential and profound affect embedded within the complex internet of language. Within the heart-wrenching expanse with this evocative evaluation, we will embark upon an introspective exploration of the book is main themes, dissect its fascinating publishing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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