

Applications of Natural Language Processing



Natural Language And The Computer

Jacob Eisenstein



Natural Language And The Computer:

Artificial Intelligence, Expert Systems, Computer Vision, and Natural Language Processing William B. Gevarter, 1984

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 **Coarse-to-Fine**

Natural Language Processing Slav Petrov, 2011-11-03 The impact of computer systems that can understand natural language will be tremendous To develop this capability we need to be able to automatically and efficiently analyze large amounts of text Manually devised rules are not sufficient to provide coverage to handle the complex structure of natural language necessitating systems that can automatically learn from examples To handle the flexibility of natural language it has become standard practice to use statistical models which assign probabilities for example to the different meanings of a word or the plausibility of grammatical constructions This book develops a general coarse to fine framework for learning and inference in large statistical models for natural language processing Coarse to fine approaches exploit a sequence of models which introduce complexity gradually At the top of the sequence is a trivial model in which learning and inference are both cheap Each subsequent model refines the previous one until a final full complexity model is reached Applications of this framework to syntactic parsing speech recognition and machine translation are presented demonstrating the effectiveness of the approach in terms of accuracy and speed The book is intended for students and researchers interested in statistical approaches to Natural Language Processing Slav's work Coarse to Fine Natural Language Processing represents a major

advance in the area of syntactic parsing and a great advertisement for the superiority of the machine learning approach
Eugene Charniak Brown University An Introduction to Natural Language Processing Through Prolog Clive

Matthews, 2016-07-01 Research into Natural Language Processing the use of computers to process language has developed over the last couple of decades into one of the most vigorous and interesting areas of current work on language and communication This book introduces the subject through the discussion and development of various computer programs which illustrate some of the basic concepts and techniques in the field The programming language used is Prolog which is especially well suited for Natural Language Processing and those with little or no background in computing Following the general introduction the first section of the book presents Prolog and the following chapters illustrate how various Natural Language Processing programs may be written using this programming language Since it is assumed that the reader has no previous experience in programming great care is taken to provide a simple yet comprehensive introduction to Prolog Due to the user friendly nature of Prolog simple yet effective programs may be written from an early stage The reader is gradually introduced to various techniques for syntactic processing ranging from Finite State Network recognisers to Chart parsers An integral element of the book is the comprehensive set of exercises included in each chapter as a means of cementing the reader's understanding of each topic Suggested answers are also provided An Introduction to Natural Language Processing Through Prolog is an excellent introduction to the subject for students of linguistics and computer science and will be especially useful for those with no background in the subject **Natural Language Processing: The PLNLP Approach**

Karen Jensen, George E. Heidorn, Stephen D. Richardson, 2013-02-26 Natural language is easy for people and hard for machines For two generations the tantalizing goal has been to get computers to handle human languages in ways that will be compelling and useful to people Obstacles are many and legendary Natural Language Processing The PLNLP Approach describes one group's decade of research in pursuit of that goal A very broad coverage NLP system including a programming language PLNLP development tools and analysis and synthesis components was developed and incorporated into a variety of well known practical applications ranging from text critiquing CRITIQUE to machine translation e.g. SHALT This book represents the first published collection of papers describing the system and how it has been used Twenty six authors from nine countries contributed to this volume Natural language analysis in the PLNLP approach is done in six stages that move smoothly from syntax through semantics into discourse The initial syntactic sketch is provided by an Augmented Phrase Structure Grammar APSG that uses exclusively binary rules and aims to produce some reasonable analysis for any input string Its approximate analysis passes to the reassignment component which takes the default syntactic attachments and adjusts them using semantic information obtained by parsing definitions and example sentences from machine readable dictionaries This technique is an example of one facet of the PLNLP approach the use of natural language itself as a knowledge representation language an innovation that permits a wide variety of online text materials to be exploited as

sources of semantic information The next stage computes the intrasentential argument structure and resolves all references both NP and VP anaphora that can be treated at this point in the processing Subsequently additional components currently not so well developed as the earlier ones handle the further disambiguation of word senses the normalization of paraphrases and the construction of a paragraph discourse model by joining sentential semantic graphs Natural Language Processing The PLNLP Approach acquaints the reader with the theory and application of a working real world domain free NLP system and attempts to bridge the gap between computational and theoretical models of linguistic structure It provides a valuable resource for students teachers and researchers in the areas of computational linguistics natural processing artificial intelligence and information science

Natural Language Generation in Artificial Intelligence and Computational Linguistics Cecile L. Paris, William R. Swartout, William C. Mann, 2013-03-14

One of the aims of Natural Language Processing is to facilitate the use of computers by allowing their users to communicate in natural language There are two important aspects to person machine communication understanding and generating While natural language understanding has been a major focus of research natural language generation is a relatively new and increasingly active field of research This book presents an overview of the state of the art in natural language generation describing both new results and directions for new research The principal emphasis of natural language generation is not only to facilitate the use of computers but also to develop a computational theory of human language ability In doing so it is a tool for extending clarifying and verifying theories that have been put forth in linguistics psychology and sociology about how people communicate A natural language generator will typically have access to a large body of knowledge from which to select information to present to users as well as number of expressing it Generating a text can thus be seen as a problem of our ways decision making under multiple constraints constraints from the propositional knowledge at hand from the linguistic tools available from the communicative goals and intentions to be achieved from the audience the text is aimed at and from the situation and past discourse Researchers in generation try to identify the factors involved in this process and determine how best to represent the factors and their dependencies

Computer Translation of Natural Language Walter Goshawke, Ian D. K. Kelly, J. David Wigg, 1987

Handbook of Natural Language Processing Nitin Indurkha, Fred J. Damerau, 2010-02-22 The Handbook of Natural Language Processing Second Edition presents practical tools and techniques for implementing natural language processing in computer systems Along with removing outdated material this edition updates every chapter and expands the content to include emerging areas such as sentiment analysis New to the Second Edition Greater

Building Natural Language Generation Systems Ehud Reiter, Robert Dale, 2000-01-28 This book explains how to build Natural Language Generation NLG systems computer software systems which use techniques from artificial intelligence and computational linguistics to automatically generate understandable texts in English or other human languages either in isolation or as part of multimedia documents Web pages and speech output systems Typically starting

from some non linguistic representation of information as input NLG systems use knowledge about language and the application domain to automatically produce documents reports explanations help messages and other kinds of texts The book covers the algorithms and representations needed to perform the core tasks of document planning microplanning and surface realization using a case study to show how these components fit together It also discusses engineering issues such as system architecture requirements analysis and the integration of text generation into multimedia and speech output systems

Natural Language at the Computer Albrecht Blaser, 2014-01-15

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