Roland Hausser

Computational Linguistics and Talking Robots

Processing Content in Database Semantics

Computational Linguistics And Talking Robots Processing Content In Database Semantics

Pierre Lison

Computational Linguistics And Talking Robots Processing Content In Database Semantics:

Computational Linguistics and Talking Robots Roland Hausser,2011-08-19 The practical task of building a talking robot requires a theory of how natural language communication works Conversely the best way to computationally verify a theory of natural language communication is to demonstrate its functioning concretely in the form of a talking robot the epitome of human machine communication To build an actual robot requires hardware that provides appropriate recognition and action interfaces and because such hardware is hard to develop the approach in this book is theoretical the author presents an artificial cognitive agent with language as a software system called database semantics DBS Because a theoretical approach does not have to deal with the technical difficulties of hardware engineering there is no reason to simplify the system instead the software components of DBS aim at completeness of function and of data coverage in word form recognition syntactic semantic interpretation and inferencing leaving the procedural implementation of elementary concepts for later In this book the author first examines the universals of natural language and explains the Database Semantics approach Then in Part I he examines the following natural language communication issues using external surfaces the cycle of natural language communication memory structure autonomous control and learning In Part II he analyzes the coding of content according to the aspects semantic relations of structure simultaneous amalgamation of content graph theoretical considerations computing perspective in dialogue and computing perspective in text The book ends with a concluding chapter a bibliography and an index The book will be of value to researchers graduate students and engineers in the areas of artificial intelligence and robotics in particular those who deal with natural language processing **Foundations of Computational Linguistics** Roland Hausser,2014-01-07 The content of this textbook is organized as a theory of language for the construction of talking robots The main topic is the mechanism of natural language communication in both the speaker and the hearer In the third edition the author has modernized the text leaving the overview of traditional theoretical and computational linguistics analytic philosophy of language and mathematical complexity theory with their historical backgrounds intact The format of the empirical analyses of English and German syntax and semantics has been adapted to current practice and Chaps 22 24 have been rewritten to focus more sharply on the construction of a talking robot

Information Modelling and Knowledge Bases XXIV Peter Vojtáš,Yasushi Kiyoki,Takehiro Tokuda,Naofumi Yoshida,2013 With the growth in our reliance on information systems and computer science information modeling and knowledge bases have become a focus for academic attention and research The amount and complexity of information the number of levels of abstraction and the size of databases and knowledge bases all continue to increase and new challenges and problems arise every day This book is part of the series Information Modelling and Knowledge Bases which concentrates on a variety of themes such as the design and specification of information systems software engineering and knowledge and process management **Computational Cognition** Roland Hausser,2023-08-31 Modern science is divided into three parts

natural sciences engineering sciences and humanities Over the last millennia natural and engineering sciences evolved a symbiotic relationship but humanities still stand apart Today however designing and building a talking robot is a comparatively new challenge for which all three branches are needed Starting from the idea that designing a theory of computational cognition should be as complete as possible and trying to answer questions such as Which ontology is required for building a computational cognition the current book integrates interfaces components functional flows data structure database schema and algorithms into a coherent system with an extensive range of cognitive functions and constitutes the background to the book Ontology of Communication recently published by the author Springer 2023 Part I discusses ontological distinctions between a sign based and an agent based approach and continues with explanations of the data structure the content addressable database schema the time linear derivations of the speak and the hear mode resonating content induction deduction and abduction in inferencing and concludes with a reconstruction of eight classical syllogisms as a test suite for DBS inferencing in the think mode Part II complements the literal use of language in the speak and hear mode with a reconstruction of syntactic mood adaptations and figurative use The database schema of DBS is shown to lend itself not only to the tasks of traditional storage and retrieval but also of reference coreference shadowing coactivation of resonating content and selective activation Part III complements the treatment of individual topics in linguistics philosophy and cognitive psychology with an overall software structure in the form of three interacting main components called the interface the memory and the production component **Ontology of Communication** Roland Hausser,2023-01-03 The book gives a comprehensive discussion of Database Semantics DBS as an agent based data driven theory of how natural language communication essentially works In language communication agents switch between speak mode driven by cognition internal content input resulting in cognition external raw data e g sound waves or pixels which have no meaning or grammatical properties but can be measured by natural science and hear mode driven by the raw data produced by the speaker resulting in cognition internal content The motivation is to compare two approaches for an ontology of communication agent based data driven vs sign based substitution driven Agent based means design of a cognitive agent with i an interface component for converting raw data into cognitive content recognition and converting cognitive content into raw data action ii an on board content addressable memory database for the storage and content retrieval iii separate treatments of the speak and the hear mode Data driven means a mapping a cognitive content as input to the speak mode into a language dependent surface as output b mapping a surface as input to the hear mode into a cognitive content as output Oppositely sign based means no distinction between speak and hear mode whereas substitution driven means using a single start symbol as input for generating infinitely many outputs based on substitutions by rewrite rules Collecting recent research of the author this beautiful novel and original exposition begins with an introduction to DBS makes a linguistic detour on subject predicate gapping and slot filler repetition and moves on to discuss computational pragmatics inference

and cognition grammatical disambiguation and other related topics The book is mostly addressed to experts working in the field of computational linguistics as well as to enthusiasts interested in the history and early development of this subject starting with the pre computational foundations of theoretical computer science and symbolic logic in the 30s *A Computational Model of Natural Language Communication* Roland R. Hausser,2006-09-28 Everyday life would be easier if we could simply talk with machines instead of having to program them Before such talking robots can be built however there must be a theory of how communicating with natural language works This requires not only a grammatical analysis of the language signs but also a model of the cognitive agent with interfaces for recognition and action an internal database and an algorithm for reading content in and out In Database Semantics these ingredients are used for reconstructing natural language communication as a mechanism for transferring content from the database of the speaker to the database of the hearer Part I of this book presents a high level description of an artificial agent which humans can freely communicate with in their accustomed language Part II analyzes the major constructions of natural language i e intra and extrapropositional functor argument structure coordination and coreference in the speaker and the hearer mode Part III defines declarative specifications for fragments of English which are used for an implementation in Java The book provides researchers graduate students and software engineers with a functional framework for the theoretical analysis of natural language communication and for all practical applications of natural language processing *Foundations of Computational Linguistics* Roland R. Hausser,2001 The central task of a future oriented computational linguistics is the development of cognitive machines which humans can freely talk with in their respective natural language In the long run this task will ensure the development of a functional theory of language an objective method of verification and a wide range of practical applications Natural communication requires not only verbal processing but also non verbal perception and action Therefore the content of this textbook is organized as a theory of language for the construction of talking robots The main topic is the mechanism of natural language communication in both the speaker and the hearer The content is divided into four parts Theory of Language Theory of Grammar Morphology and Syntax Semantics and Pragmatics The book contains more than 700 exercises for reviewing key ideas and important problems In the Second Edition changes are most noticeable in Chapters 22 24 which have been completely rewritten They present a declarative outline for programming the semantic and pragmatic interpretation of natural language communication The presentation is now simpler and more comprehensive It is defined as a formal fragment and includes a new control structure an analysis of spatio temporal infer encing and an analysis of internal matching based on the notion of a task analysis Examples and explanations which were contained in the old versions of Chapters 22 24 have been moved to the new Appendix A schematic summary and a conclusion have been added as well *How to Build a Talking Robot* Roland Hausser,2018-10-12 This book explains how to use ideas from computer science linguistics philosophy psychology artificial intelligence and cybernetics to build a talking robot The author s own system

Database Semantics DBS provides the required cycle of natural language communication and cybernetics and artificial intelligence techniques are used to design an autonomous control system The book will be of particular value to researchers in linguistics artificial intelligence and cybernetics **Foundations of Computational Linguistics** Roland Hausser,2013-03-09 The central task of a future oriented computationallinguistics is the development of cognitive machines which humans can freely talk with in their respective naturallan guage In the long run this task will ensure the development of a functional theory of language an objective method of verification and a wide range of applications Natural communication requires not only verbal processing but also non verbal perception and action Therefore the content of this textbook is organized as a theory of language for the construction of talking robots The main topic is the mechanism of natural language communication in both the speaker and the hearer The content is divided into the following parts I Theory of Language 11 Theory of Grammar III Morphology and Syntax IV Semantics and Pragmatics Each part consists of 6 chapters Each of the 24 chapters consists of 5 sections Alto gether 772 exercises help reviewing key ideas and important problems **Library & Information Science Abstracts** ,2008 <u>Documentation Abstracts</u> ,1989 *Computational Lexical Semantics* Patrick Saint-Dizier,Evelyn Viegas,1995-02-24 Lexical semantics has become a major research area within computational linguistics drawing from psycholinguistics knowledge representation and computer algorithms and architecture Research programs whose goal is the definition of large lexicons are asking what the appropriate representation structure is for different facets of lexical information Among these facets semantic information is probably the most complex and the least explored Computational Lexical Semantics is one of the first volumes to provide models for the creation of various kinds of computerized lexicons for the automatic treatment of natural language with applications to machine translation automatic indexing and database front ends knowledge extraction among other things It focuses on semantic issues as seen by linguists psychologists and computer scientists Besides describing academic research it also covers ongoing industrial projects **Robust Processing of Spoken Situated Dialogue** Pierre Lison,2010-03 Recent years have witnessed a surge of interest for service robots endowed with communicative abilities Such robots could take care of routine tasks in homes offices schools or hospitals help disabled or mentally impaired persons serve as social companions for the elderly or simply entertain us They would assist us in our daily life activities These robots are by definition meant to be deployed in social environments and their capacity to interact naturally with humans is thus a crucial factor The development of such talking robots led to the emergence of a new research field Human Robot Interaction HRI which draws from a wide range of scientific disciplines such as artificial intelligence robotics linguistics and cognitive science This work focuses on the issue of robust speech understanding that is how to process spoken dialogue automatically to extract the intended meaning The book presents a new approach which combines linguistic resources with statistical techniques and context sensitive interpretation to achieve both deep and robust spoken dialogue comprehension The first part of the book provides a general

introduction to the field of human robot interaction and details the major linguistic properties of spoken dialogue as well as some grammatical formalisms used to analyse them The second part describes the approach itself devoting one chapter to context sensitive speech recognition for HRI and one chapter to the robust parsing of spoken inputs via grammar relaxation and statistical parse selection All the algorithms presented are fully implemented and integrated as part of a distributed cognitive architecture for autonomous robots A complete evaluation of our approach using Wizard of Oz experiments is also provided in this book The results demonstrate very significant improvements in accuracy and robustness compared to the baseline   *Dialogues with Social Robots* Kristiina Jokinen,Graham Wilcock,2016-12-23 This book explores novel aspects of social robotics spoken dialogue systems human robot interaction spoken language understanding multimodal communication and system evaluation It offers a variety of perspectives on and solutions to the most important questions about advanced techniques for social robots and chat systems Chapters by leading researchers address key research and development topics in the field of spoken dialogue systems focusing in particular on three special themes dialogue state tracking evaluation of human robot dialogue in social robotics and socio cognitive language processing The book offers a valuable resource for researchers and practitioners in both academia and industry whose work involves advanced interaction technology and who are seeking an up to date overview of the key topics It also provides supplementary educational material for courses on state of the art dialogue system technologies social robotics and related research fields   Computational Linguistics and Intelligent Text Processing Alexander Gelbukh,2014-01-15   **Words and Intelligence I** Khurshid Ahmad,Christopher Brewster,Mark Stevenson,2009-09-03 This book celebrates the work of Yorick Wilks in the form of a selection of his papers which are intended to reflect the range and depth of his work The volume accompanies a Festschrift which celebrates his contribution to the fields of Computational Linguistics and Artificial Intelligence The selected papers reflect Yorick s contribution to both practical and theoretical aspects of automatic language processing   *Current Issues in Computational Linguistics: In Honour of Don Walker* Antonio Zampolli,Nicoletta Calzolari,Martha Palmer,1994-06-30 With this volume in honour of Don Walker Linguistica Computazionale con tinues the series of special issues dedicated to outstanding personalities who have made a significant contribution to the progress of our discipline and maintained a special collaborative relationship with our Institute in Pisa I take the liberty of quoting in this preface some of the initiatives Pisa and Don Walker have jointly promoted and developed during our collaboration because I think that they might serve to illustrate some outstanding features of Don s personality in particular his capacity for identifying areas of potential convergence among the different scientific communities within our field and establishing concrete forms of coop eration These initiatives also testify to his continuous and untiring work dedi cated to putting people into contact and opening up communication between them collecting and disseminating information knowledge and resources and creating shareable basic infrastructures needed for progress in our field Our collaboration began within the Linguistics in Documentation group of the

FID and continued in the framework of the CCL International Committee for Computational Linguistics In 1982 this collaboration was strengthened when at CO LING in Prague I was invited by Don to join him in the organization of a series of workshops with participants of the various communities interested in the study development and use of computational lexica

Language Grounding in Robots Luc Steels,Manfred Hild,2012-02-14 Written by leading international experts this volume presents contributions establishing the feasibility of human language like communication with robots The book explores the use of language games for structuring situated dialogues in which contextualized language communication and language acquisition can take place Within the text are integrated experiments demonstrating the extensive research which targets artificial language evolution Language Grounding in Robots uses the design layers necessary to create a fully operational communicating robot as a framework for the text focusing on the following areas Embodiment Behavior Perception and Action Conceptualization Language Processing Whole Systems Experiments This book serves as an excellent reference for researchers interested in further study of artificial language evolution *Linguistic Linked Data* Philipp Cimiano,Christian Chiarcos,John P. McCrae,Jorge Gracia,2020-01-13 This is the first monograph on the emerging area of linguistic linked data Presenting a combination of background information on linguistic linked data and concrete implementation advice it introduces and discusses the main benefits of applying linked data LD principles to the representation and publication of linguistic resources arguing that LD does not look at a single resource in isolation but seeks to create a large network of resources that can be used together and uniformly and so making more of the single resource The book describes how the LD principles can be applied to modelling language resources The first part provides the foundation for understanding the remainder of the book introducing the data models ontology and query languages used as the basis of the Semantic Web and LD and offering a more detailed overview of the Linguistic Linked Data Cloud The second part of the book focuses on modelling language resources using LD principles describing how to model lexical resources using Ontolex lemon the lexicon model for ontologies and how to annotate and address elements of text represented in RDF It also demonstrates how to model annotations and how to capture the metadata of language resources Further it includes a chapter on representing linguistic categories In the third part of the book the authors describe how language resources can be transformed into LD and how links can be inferred and added to the data to increase connectivity and linking between different datasets They also discuss using LD resources for natural language processing The last part describes concrete applications of the technologies representing and linking multilingual wordnets applications in digital humanities and the discovery of language resources Given its scope the book is relevant for researchers and graduate students interested in topics at the crossroads of natural language processing computational linguistics and the Semantic Web linked data It appeals to Semantic Web experts who are not proficient in applying the Semantic Web and LD principles to linguistic data as well as to computational linguists who are used to working with lexical and linguistic resources wanting

to learn about a new paradigm for modelling publishing and exploiting linguistic resources Computational Linguistics and Intelligent Text Processing Alexander Gelbukh,2013-03-13

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