



Roland Hausser

Computational Linguistics and Talking Robots

Processing Content
in Database Semantics

 Springer

Computational Linguistics And Talking Robots Processing Content In Database Semantics

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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 *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 **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 **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 Library & Information Science Abstracts ,2008 Foundations of Computational Linguistics Roland Hausser, 2013-03-09 As an interdisciplinary field computational linguistics has its sources in several areas of science each with its own goals methods and historical background Thereby it has remained unclear which components fit together and which do not This suggests three possible approaches to designing a computational linguistics textbook The first approach proceeds from one s own school of thought usually determined of study rather than by a well informed delib by chance such as one s initial place erate choice The goal is to extend the inherited theoretical framework or method to as many aspects of language analysis as possible As a consequence the issue of com pat ibility with other approaches in the field need not be addressed and one s assumptions are questioned at best in connection with puzzling problems The second approach takes the viewpoint of an objective observer and aims to survey the field as completely as possible However the large number of different schools methods and tasks necessitates a subjective selection Furthermore the pre sumed neutrality provides no incentive to investigate the compatibility between the elements selected The third approach aims at solving a comprehensive functional task with the differ To arrive at the desired solution suitability ent approaches being ordered relative to it and compatibility of the different elements adopted must be investigated with regard to the task at hand **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 *Documentation Abstracts* ,1989

The Top Books of the Year Computational Linguistics And Talking Robots Processing Content In Database Semantics The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. Computational Linguistics And Talking Robots Processing Content In Database Semantics : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Computational Linguistics And Talking Robots Processing Content In Database Semantics : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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