

Hermann Helbig

Knowledge Representation and the Semantics of Natural Language



Springer

Knowledge Representation And The Semantics Of Natural Language Cognitive Technologies

Rinke Hoekstra



Knowledge Representation And The Semantics Of Natural Language Cognitive Technologies:

Knowledge Representation and the Semantics of Natural Language Hermann Helbig, 2005-12-19 Natural Language is not only the most important means of communication between human beings it is also used over historical periods for the preservation of cultural achievements and their transmission from one generation to the other During the last few decades the flood of digitalized information has been growing tremendously This tendency will continue with the globalization of information societies and with the growing importance of national and international computer networks This is one reason why the theoretical understanding and the automated treatment of communication processes based on natural language have such a decisive social and economic impact In this context the semantic representation of knowledge originally formulated in natural language plays a central part because it connects all components of natural language processing systems be they the automatic understanding of natural language analysis the rational reasoning over knowledge bases or the generation of natural language expressions from formal representations This book presents a method for the semantic representation of natural language expressions texts sentences phrases etc which can be used as a universal knowledge representation paradigm in the human sciences like linguistics cognitive psychology or philosophy of language as well as in computational linguistics and in artificial intelligence It is also an attempt to close the gap between these disciplines which to a large extent are still working separately *Automation, Communication and Cybernetics in Science and Engineering* 2009/2010 Sabina Jeschke, Ingrid Isenhardt, Klaus Henning, 2011-01-21 The book presents a representative selection of all publications published between 01 2009 and 06 2010 in various books journals and conference proceedings by the researchers of the institute cluster IMA Institute of Information Management in Mechanical Engineering ZLW Center for Learning and Knowledge Management IfU Institute for Management Cybernetics Faculty of Mechanical Engineering RWTH Aachen University The contributions address the cluster's five core research fields suitable processes for knowledge and technology intensive organizations next generation teaching and learning concepts for universities and the economy cognitive IT supported processes for heterogeneous and cooperative systems target group adapted user models for innovation and technology development processes semantic networks and ontologies for complex value chains and virtual environments Innovative fields of application such as cognitive systems autonomous truck convoys telemedicine ontology engineering knowledge and information management learning models and technologies organizational development and management cybernetics are presented The contributions show the unique potential of the broad and interdisciplinary research approach of the ZLW IMA and the IfU **Dictionaries. An International Encyclopedia of Lexicography** Rufus Gouws, Ulrich Heid, Wolfgang Schweickard, Herbert Ernst Wiegand, 2013-12-18 The basis for this additional volume are the three volumes of the handbooks Dictionaries An International Encyclopedia of Lexicography HSK 5 1 5 3 published between 1989 and 1991 An updating has been perceived as an important desideratum for a considerable time In the present

Supplementary Volume the premises and subjects of HSK 5 1 5 3 are complemented by new articles that take account of the practice internal and theoretical developments of the last 15 years Special attention has been given to the following topics the status and function of lexicographic reference works the history of lexicography the theory of lexicography lexicographic processes lexicographic training and lexicographic institutions new metalexicographic methods electronic and especially computer assisted lexicography

Agent and Multi-Agent Systems: Technologies and Applications Piotr Jedrzejowicz, Ngoc Thanh Nguyen, Robert J. Howlett, Lakhmi C. Jain, 2010-06-09 This book constitutes the proceedings of the 4th KES International Symposium on Agent and Multi Agent Systems KES AMSTA 2010 held in June 2010 in Gdynia Poland The discussed field is concerned with the development and analysis of AI based problem solving and control architectures for both single agent and multiple agent systems Only 83 papers were selected for publication in both volumes which focus on topics such as Multi Agent Systems Design and Implementation Negotiations and Social Issues Web Services and Semantic Web Cooperation Coordination and Teamwork Agent Based Modeling Simulation and Decision Making Multi Agent Applications Management and e Business Mobile Agents and Robots and Machine Learning

Challenges of Discourse Processing Patrick Saint-Dizier, 2014-03-17 Discourse analysis remains an unresolved challenge in Computational Linguistics in spite of the numerous theoretical works that have been developed in the past two decades This situation is mainly due to the complexity of discourse constructions whose recognition often involves language analysis associated with domain knowledge and reasoning Technical documents such as procedures requirements and product manuals must be relatively constrained in terms of language diversity and complexity the goal is to make sure that users can efficiently and accurately understand these documents For that purpose these documents often follow authoring guidelines These constraints make it possible to develop an accurate discourse analysis of technical documents which can be used to model their contents and to improve their overall quality This book shows that linguistic analysis and natural language processing methods can efficiently be used to automatically recognize the discourse structures of technical documents independently of the industrial sector and activity that is considered Furthermore the book presents well founded and concrete solutions which can be deployed in industrial contexts for various types of applications This book begins with a presentation of the different types of technical texts Their structure is then developed in conjunction with a survey of a number of authoring guidelines developed in the industry The TextCoop platform and the Dislog language designed for discourse analysis are then presented with a large number of concrete examples allowing readers to develop their own applications The book concludes with an in depth investigation of the structure of procedures and requirements

The Routledge Handbook of Language and Religion Stephen Pihlaja, Helen Ringrow, 2023-12-14 The Routledge Handbook of Language and Religion is the first ever comprehensive collection of research on religion and language with over 35 authors from 15 countries presenting a range of linguistic and discourse analytic research on religion and belief in different discourse contexts The contributions show the

importance of studying language and religion and for bringing together work in this area across sub disciplines languages cultures and geographical boundaries The Handbook focuses on three major topics Religious and Sacred Language Institutional Discourse and Religious Identity and Community Scholars from a variety of different disciplinary backgrounds investigate these topics using a range of linguistic perspectives including Cognitive Linguistics Discourse Analysis Sociolinguistics Pragmatics and Conversation Analysis The data analysed in these chapters come from a variety of religious backgrounds and national contexts Linguistic data from all the major world religions are included with sacred texts conversational data and institutional texts included for analysis The Handbook is intended to be useful for readers from different subdisciplines within linguistics but also to researchers working in other disciplines including philosophy theology and sociology Each chapter gives both a template for research approaches and suggestions for future research and will inspire readers at every stage of their career

Intelligent Information and Database Systems Ngoc Thanh Nguyen, Kietikul Jearanaitanakij, Ali Selamat, Bogdan Trawiński, Suphamit Chittayasothorn, 2020-03-03 The two volume set LNAI 12033 and 11034 constitutes the refereed proceedings of the 12th Asian Conference on Intelligent Information and Database Systems ACIIDS 2020 held in Phuket Thailand in March 2020 The total of 105 full papers accepted for publication in these proceedings were carefully reviewed and selected from 285 submissions The papers of the first volume are organized in the following topical sections Knowledge Engineering and Semantic Web Natural Language Processing Decision Support and Control Systems Computer Vision Techniques Machine Learning and Data Mining Deep Learning Models Advanced Data Mining Techniques and Applications Multiple Model Approach to Machine Learning The papers of the second volume are divided into these topical sections Application of Intelligent Methods to Constrained Problems Automated Reasoning with Applications in Intelligent Systems Current Trends in Artificial Intelligence Optimization Learning and Decision Making in Bioinformatics and Bioengineering Computer Vision and Intelligent Systems Data Modelling and Processing for Industry 4.0 Intelligent Applications of Internet of Things and Data Analysis Technologies Intelligent and Contextual Systems Intelligent Systems and Algorithms in Information Sciences Intelligent Supply Chains and e Commerce Privacy Security and Trust in Artificial Intelligence Interactive Analysis of Image Video and Motion Data in Life Sciences

Natural Language Understanding and Cognitive Robotics Masao Yokota, 2019-12-06 In the not so distant future we can expect a world where humans and robots coexist and interact with each other For this to occur we need to understand human traits such as seeing hearing thinking speaking etc and institute these traits in robots The most essential feature necessary for robots to achieve is that of integrative multimedia understanding IMU which occurs naturally in humans It allows us to assimilate pieces of information expressed through different modes such as speech pictures gestures etc The book describes how robots acquire traits like natural language understanding NLU as the central part of IMU Mental image directed semantic theory MIDST is its core and is based on the hypothesis that NLU is essentially the processing of mental image associated with natural

language expressions namely mental image based understanding MBU MIDST is intended to model omnisensory mental image in human and to afford a knowledge representation system in order for integrative management of knowledge subjective to cognitive mechanisms of intelligent entities such as humans and robots based on a mental image model visualized as Loci in Attribute Spaces and its description language Lmd mental image description language to be employed for predicate logic with a systematic scheme for symbol grounding This language works as an interlingua among various kinds of information media and has been applied to several versions of the intelligent system interlingual understanding model aiming at general system IMAGES Its latest version i e conversation management system CMS simulates MBU and comprehends the user s intention through dialogue to find and solve problems and finally provides a response in text or animation The book is aimed at researchers and students interested in artificial intelligence robotics and cognitive science Based on philosophical considerations the methodology will also have an appeal in linguistics psychology ontology geography and cartography Key Features Describes the methodology to provide robots with human like capability of natural language understanding NLU as the central part of IMU Uses methodology that also relates to linguistics psychology ontology geography and cartography Examines current trends in machine translation [An Introduction to Language Processing with Perl and Prolog](#) Pierre M. Nugues, 2006-11-22 The areas of natural language processing and computational linguistics have continued to grow in recent years driven by the demand to automatically process text and spoken data With the processing power and techniques now available research is scaling up from lab prototypes to real world proven applications This book teaches the principles of natural language processing first covering linguistics issues such as encoding entropy and annotation schemes defining words tokens and parts of speech and morphology It then details the language processing functions involved including part of speech tagging using rules and stochastic techniques using Prolog to write phase structure grammars parsing techniques and syntactic formalisms semantics predicate logic and lexical semantics and analysis of discourse and applications in dialog systems The key feature of the book is the author s hands on approach throughout with extensive exercises sample code in Prolog and Perl and a detailed introduction to Prolog The reader is supported with a companion website that contains teaching slides programs and additional material The book is suitable for researchers and students of natural language processing and computational linguistics **Natural Language Processing** Raymond S. T. Lee, 2023-11-14 This textbook presents an up to date and comprehensive overview of Natural Language Processing NLP from basic concepts to core algorithms and key applications Further it contains seven step by step NLP workshops total length 14 hours offering hands on practice with essential Python tools like NLTK spaCy TensorFlow Keras Transformer and BERT The objective of this book is to provide readers with a fundamental grasp of NLP and its core technologies and to enable them to build their own NLP applications e g Chatbot systems using Python based NLP tools It is both a textbook and NLP tool book intended for the following readers undergraduate students from various disciplines who

want to learn NLP lecturers and tutors who want to teach courses or tutorials for undergraduate graduate students on NLP and related AI topics and readers with various backgrounds who want to learn NLP and more importantly to build workable NLP applications after completing its 14 hours of Python based workshops *Developments in Natural Intelligence Research and Knowledge Engineering: Advancing Applications* Wang, Yingxu, 2012-06-30 This book covers the intricate worlds of thought comprehension intelligence and knowledge through the scientific field of Cognitive Science covering topics that have been pivotal at major conferences covering Cognitive Science Provided by publisher **Vector Semantics** András Kornai, 2023-01-07 This open access book introduces Vector semantics which links the formal theory of word vectors to the cognitive theory of linguistics The computational linguists and deep learning researchers who developed word vectors have relied primarily on the ever increasing availability of large corpora and of computers with highly parallel GPU and TPU compute engines and their focus is with endowing computers with natural language capabilities for practical applications such as machine translation or question answering Cognitive linguists investigate natural language from the perspective of human cognition the relation between language and thought and questions about conceptual universals relying primarily on in depth investigation of language in use In spite of the fact that these two schools both have linguistics in their name so far there has been very limited communication between them as their historical origins data collection methods and conceptual apparatuses are quite different Vector semantics bridges the gap by presenting a formal theory cast in terms of linear polytopes that generalizes both word vectors and conceptual structures by treating each dictionary definition as an equation and the entire lexicon as a set of equations mutually constraining all meanings **Advances in Generative Lexicon Theory** James Pustejovsky, Pierrette Bouillon, Hitoshi Isahara, Kyoko Kanzaki, Chungmin Lee, 2012-12-18 This collection of papers takes linguists to the leading edge of techniques in generative lexicon theory the linguistic composition methodology that arose from the imperative to provide a compositional semantics for the contextual modifications in meaning that emerge in real linguistic usage Today s growing shift towards distributed compositional analyses evinces the applicability of GL theory and the contributions to this volume presented at three international workshops GL 2003 GL 2005 and GL 2007 address the relationship between compositionality in language and the mechanisms of selection in grammar that are necessary to maintain this property The core unresolved issues in compositionality relating to the interpretation of context and the mechanisms of selection are treated from varying perspectives within GL theory including its basic theoretical mechanisms and its analytical viewpoint on linguistic phenomena **Mathematical Aspects of Logic Programming Semantics** Pascal Hitzler, Anthony Seda, 2016-04-19 Covering the authors own state of the art research results this book presents a rigorous modern account of the mathematical methods and tools required for the semantic analysis of logic programs It significantly extends the tools and methods from traditional order theory to include nonconventional methods from mathematical analysis that depend on topology domain theory generalized distance functions and associated fixed point

theory The authors closely examine the interrelationships between various semantics as well as the integration of logic programming and connectionist systems neural networks

Logical and Relational Learning Luc De Raedt, 2008-09-27

Use the term logical and relational learning to refer to the subfield of artificial intelligence machine learning and data mining that is concerned with learning in expressive logical or relational representations It is the union of inductive logic programming statistical relational learning and multi relational data mining which all have contributed techniques for learning from data in relational form Even though some early contributions to logical and relational learning are about forty years old now it was only with the advent of deductive logic programming in the early 1990s that the field became popular Whereas initial work was often concerned with logical or logic programming issues the focus has rapidly changed to the discovery of new and interpretable knowledge from structured data often in the form of rules and soon important successes in applications in domains such as bio and chemo informatics and computational linguistics were realized Today the challenges and opportunities of dealing with structured data and knowledge have been taken up by the artificial intelligence community at large and form the motivation for a lot of ongoing research Indeed graph network and multi relational data mining are now popular themes in data mining and statistical relational learning is receiving a lot of attention in the machine learning and uncertainty in artificial intelligence communities In addition the range of tasks for which logical and relational techniques have been developed now covers almost all machine learning and data mining tasks

AI Systems Anand V Vemula, This book provides a comprehensive exploration of Artificial Intelligence systems spanning foundational concepts technical underpinnings design principles human interaction ethics applications and future directions It begins by establishing core definitions historical context and the various types of AI from narrow task specific models to the visionary goal of artificial general intelligence AGI The technical foundations delve into key algorithms machine learning models deep learning architectures natural language processing computer vision reinforcement learning and knowledge representation techniques that empower AI capabilities Moving into design and architecture the book examines data acquisition model training validation deployment and the challenges of scalability and optimization critical to building robust AI systems The section on human AI interaction addresses user interfaces explainability collaboration and trust highlighting the importance of transparency and interpretability for real world adoption Ethical considerations form a substantial focus investigating issues of bias fairness privacy safety and governance frameworks necessary to ensure responsible AI development The applications section showcases AI's transformative impact across healthcare finance robotics communication and creative arts illustrating both current achievements and future potential Finally the book surveys emerging technologies explores the frontier of general AI and reflects on societal impacts including opportunities and risks Overall this work serves as a foundational guide for understanding the multidisciplinary landscape of AI systems blending theory and practice while emphasizing the technical ethical and societal dimensions shaping the future of artificial

intelligence **Flexible Query Answering Systems** Troels Andreasen, Guy De Tré, Janusz Kacprzyk, Henrik Legind Larsen, Gloria Bordogna, Sławomir Zadrozny, 2021-09-15 This book constitutes the refereed proceedings of the 14th International Conference on Flexible Query Answering Systems FQAS 2021 held virtually and in Bratislava Slovakia in September 2021 The 16 full papers and 1 perspective papers presented were carefully reviewed and selected from 17 submissions They are organized in the following topical sections model based flexible query answering approaches and data driven approaches Machine Learning Techniques for Multimedia Matthieu Cord, Pádraig Cunningham, 2008-02-07 Processing multimedia content has emerged as a key area for the application of machine learning techniques where the objectives are to provide insight into the domain from which the data is drawn and to organize that data and improve the performance of the processes manipulating it Applying machine learning techniques to multimedia content involves special considerations the data is typically of very high dimension and the normal distinction between supervised and unsupervised techniques does not always apply This book provides a comprehensive coverage of the most important machine learning techniques used and their application in this domain Arising from the EU MUSCLE network a program that drew together multidisciplinary teams with expertise in machine learning pattern recognition artificial intelligence and image video text and crossmedia processing the book first introduces the machine learning principles and techniques that are applied in multimedia data processing and analysis The second part focuses on multimedia data processing applications with chapters examining specific machine learning issues in domains such as image retrieval biometrics semantic labelling mobile devices and mining in text and music This book will be suitable for practitioners researchers and students engaged with machine learning in multimedia applications **A Knowledge Representation Practionary** Michael K. Bergman, 2018-12-12 This major work on knowledge representation is based on the writings of Charles S Peirce a logician scientist and philosopher of the first rank at the beginning of the 20th century This book follows Peirce s practical guidelines and universal categories in a structured approach to knowledge representation that captures differences in events entities relations attributes types and concepts Besides the ability to capture meaning and context the Peircean approach is also well suited to machine learning and knowledge based artificial intelligence Peirce is a founder of pragmatism the uniquely American philosophy Knowledge representation is shorthand for how to represent human symbolic information and knowledge to computers to solve complex questions KR applications range from semantic technologies and knowledge management and machine learning to information integration data interoperability and natural language understanding Knowledge representation is an essential foundation for knowledge based AI This book is structured into five parts The first and last parts are bookends that first set the context and background and conclude with practical applications The three main parts that are the meat of the approach first address the terminologies and grammar of knowledge representation then building blocks for KR systems and then design build test and best practices in putting a system together Throughout the book refers to and leverages the open

source KBpedia knowledge graph and its public knowledge bases including Wikipedia and Wikidata KBpedia is a ready baseline for users to bridge from and expand for their own domain needs and applications It is built from the ground up to reflect Peircean principles This book is one of timeless practical guidelines for how to think about KR and to design knowledge management KM systems The book is grounded bedrock for enterprise information and knowledge managers who are contemplating a new knowledge initiative This book is an essential addition to theory and practice for KR and semantic technology and AI researchers and practitioners who will benefit from Peirce s profound understanding of meaning and context Ontology Representation Rinke Hoekstra,2009 Based on author s thesis from the Dutch Research School for Information and Knowledge Systems

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