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Ontology Engineering in a Networked World

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Ontology Engineering In A Networked World:

Ontology Engineering in a Networked World Mari Carmen Suárez-Figueroa, Asunción Gómez-Pérez, Enrico Motta, Aldo Gangemi, 2012-03-26 The Semantic Web is characterized by the existence of a very large number of distributed semantic resources which together define a network of ontologies. These ontologies in turn are interlinked through a variety of different meta relationships such as versioning inclusion and many more. This scenario is radically different from the relatively narrow contexts in which ontologies have been traditionally developed and applied and thus calls for new methods and tools to effectively support the development of novel network oriented semantic applications. This book by Suárez-Figueroa et al provides the necessary methodological and technological support for the development and use of ontology networks which ontology developers need in this distributed environment. After an introduction in its second part the authors describe the NeOn Methodology framework. The book's third part details the key activities relevant to the ontology engineering life cycle. For each activity a general introduction, methodological guidelines and practical examples are provided. The fourth part then presents a detailed overview of the NeOn Toolkit and its plug-ins. Lastly case studies from the pharmaceutical and the fishery domain round out the work. The book primarily addresses two main audiences: students and their lecturers who need a textbook for advanced undergraduate or graduate courses on ontology engineering and practitioners who need to develop ontologies in particular or Semantic Web based applications in general. Its educational value is maximized by its structured approach to explaining guidelines and combining them with case studies and numerous examples. The description of the open source NeOn Toolkit provides an additional asset as it allows readers to easily evaluate and apply the ideas presented.

Ontology Engineering with Ontology Design Patterns: Foundations and Applications P. Hitzler, A. Gangemi, K. Janowicz, 2016-09-16 The use of ontologies for data and knowledge organization has become ubiquitous in many data intensive and knowledge driven application areas in science, industry and the humanities. At the same time ontology engineering best practices continue to evolve. In particular modular ontology modeling based on ontology design patterns is establishing itself as an approach for creating versatile and extendable ontologies for data management and integration. This book is the very first comprehensive treatment of Ontology Engineering with Ontology Design Patterns. It contains both advanced and introductory material accessible for readers with only a minimal background in ontology modeling. Some introductory material is written in the style of tutorials and specific chapters are devoted to examples and to applications. Other chapters convey the state of the art in research regarding ontology design patterns. The editors and the contributing authors include the leading contributors to the development of ontology design pattern driven ontology engineering.

The Semantic Web - ISWC 2022 Ulrike Sattler, Aidan Hogan, Maria Keet, Valentina Presutti, João Paulo A. Almeida, Hideaki Takeda, Pierre Monnin, Giuseppe Pirrò, Claudia d'Amato, 2022-10-16 This book constitutes the proceedings of the 21st International Semantic Web Conference ISWC 2022 which took place in October 2022 in a virtual

mode The 48 full papers presented in this volume were thoroughly reviewed and selected from 239 submissions They deal with the latest advances in fundamental research innovative technology and applications of the Semantic Web linked data knowledge graphs and knowledge processing on the Web Papers are organized in a research track resources and in use track The research track details theoretical analytical and empirical aspects of the Semantic Web and its intersection with other disciplines The resources track promotes the sharing of resources which support enable or utilize semantic web research including datasets ontologies software and benchmarks And finally the in use track is dedicated to novel and significant research contributions addressing theoretical analytical and empirical aspects of the Semantic Web and its intersection with other disciplines The chapters Hashing the Hypertrie Space and Time Efficient Indexing for SPARQL in Tensors Agree to Disagree Managing Ontological Perspectives using Standpoint Logic GNNQ A Neuro Symbolic Approach to Query Answering over Incomplete Knowledge Graphs ISSA Generic Pipeline Knowledge Model and Visualization tools to Help Scientists Search and Make Sense of a Scientific Archive are licensed under the terms of the Creative Commons Attribution 4 0 International License

Semantic IoT: Theory and Applications Rajiv Pandey, Marcin Paprzycki, Nidhi Srivastava, Subhash Bhalla, Katarzyna Wasielewska-Michniewska, 2021-04-12 This book is focused on an emerging area i e combination of IoT and semantic technologies which should enable breaking the silos of local and or domain specific IoT deployments Taking into account the way that IoT ecosystems are realized several challenges can be identified Among them of definite importance are this list is obviously not exhaustive i How to provide common representation and or shared understanding of data that will enable analysis across systematically growing ecosystems ii How to build ecosystems based on data flows iii How to track data provenance iv How to ensure manage trust v How to search for things data within ecosystems vi How to store data and assure its quality Semantic technologies are often considered among the possible ways of addressing these and other related questions More precisely in academic research and in industrial practice semantic technologies materialize in the following contexts this list is also not exhaustive but indicates the breadth of scope of semantic technology usability i representation of artefacts in IoT ecosystems and IoT networks ii providing interoperability between heterogeneous IoT artefacts ii representation of provenance information enabling provenance tracking trust establishment and quality assessment iv semantic search enabling flexible access to data originating in different places across the ecosystem v flexible storage of heterogeneous data Finally Semantic Web Web of Things and Linked Open Data are architectural paradigms with which the aforementioned solutions are to be integrated to provide production ready deployments

Artificial Intelligence for Translational Pharmacology Zhi-Liang Ji, Lixia Yao, Kartick Chandra Pramanik, Zhaohui John Cai, 2020-07-28 **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

A Guided Tour of Artificial Intelligence Research Pierre Marquis, Odile Papini, Henri Prade, 2020-05-08 The purpose of this book is to provide an overview of AI research ranging from basic work to interfaces and applications with as much emphasis on results as on current issues It is aimed at an audience of master students and Ph D students and can be of interest as well for researchers and engineers who want to know more about AI The book is split into three volumes the first volume brings together twenty three chapters dealing with the foundations of knowledge representation and the formalization of reasoning and learning Volume 1 Knowledge representation reasoning and learning the second volume offers a view of AI in fourteen chapters from the side of the algorithms Volume 2 AI Algorithms the third volume composed of sixteen chapters describes the main interfaces and applications of AI Volume 3 Interfaces and applications of AI Implementing reasoning or decision making processes requires an appropriate representation of the pieces of information to be exploited This first volume starts with a historical chapter sketching the slow emergence of building blocks of AI along centuries Then the volume provides an organized overview of different logical numerical or graphical representation formalisms able to handle incomplete information rules having exceptions probabilistic and possibilistic uncertainty and beyond as well as taxonomies time space preferences norms causality and even trust and emotions among agents Different types of reasoning beyond classical deduction are surveyed including nonmonotonic reasoning belief revision updating information fusion reasoning based on similarity case based interpolative or analogical as well as reasoning about actions reasoning about ontologies description logics argumentation and negotiation or persuasion between agents Three chapters deal with decision making be it multiple criteria collective or under uncertainty Two chapters cover statistical computational learning and reinforcement learning other machine learning topics are covered in Volume 2 Chapters on diagnosis and supervision validation and explanation and knowledge base acquisition complete the volume

Knowledge Graph Technologies: the Next Frontier of the Food, Agriculture, and Water Domains Marie-Angélique Laporte, Catherine Roussey, Christophe Guéret, 2023-12-27

Critical Approaches to Information Retrieval Research Sarfraz, Muhammad, 2019-08-30 Information retrieval IR is considered to be the science of searching for information from a variety of information sources related to texts images sounds or multimedia With the rise of the internet and digital databases updated information retrieval methodologies are essential to ensure the continued

facilitation and enhancement of information exchange

Critical Approaches to Information Retrieval Research is a critical scholarly publication that provides multidisciplinary examinations of theoretical innovations and methods in information retrieval technologies including search and storage applications for data text image sound document and video retrieval Featuring a wide range of topics including data mining machine learning and ontology this book is ideal for librarians software engineers data scientists professionals researchers information engineers scientists practitioners and academicians working in the fields of computer science information technology information and communication sciences education health library and more

Theories of Informetrics and Scholarly Communication Cassidy R. Sugimoto, 2016-02-22

Scientometrics have become an essential element in the practice and evaluation of science and research including both the evaluation of individuals and national assessment exercises Yet researchers and practitioners in this field have lacked clear theories to guide their work As early as 1981 then doctoral student Blaise Cronin published *The need for a theory of citing* a call to arms for the fledgling scientometric community to produce foundational theories upon which the work of the field could be based More than three decades later the time has come to reach out the field again and ask how they have responded to this call This book compiles the foundational theories that guide informetrics and scholarly communication research It is a much needed compilation by leading scholars in the field that gathers together the theories that guide our understanding of authorship citing and impact

Advances in Information Systems, Artificial Intelligence and Knowledge Management Inès Saad, Camille Rosenthal-Sabroux, Faiez Gargouri, Salem Chakhar, Nigel Williams, Ella Haig, 2024-01-19

This book constitutes the refereed proceedings of the 6th International Conference on Information and Knowledge Systems ICIKS 2023 held in Portsmouth UK during June 22 23 2023 The 18 full papers and 6 short papers included in this book were carefully reviewed and selected from 58 submissions They were organized in topical sections as follows Decision Making Recommender Systems and Information Support Systems Information Systems and Machine Learning Knowledge Management Context and Ontology Cybersecurity and Intelligent Systems and Natural Language Processing for Decision Systems

Exploiting Linked Data and Knowledge Graphs in Large Organisations Jeff Z. Pan, Guido Vetere, Jose Manuel Gomez-Perez, Honghan Wu, 2017-01-24

This book addresses the topic of exploiting enterprise linked data with a particular focus on knowledge construction and accessibility within enterprises It identifies the gaps between the requirements of enterprise knowledge consumption and standard data consuming technologies by analysing real world use cases and proposes the enterprise knowledge graph to fill such gaps It provides concrete guidelines for effectively deploying linked data graphs within and across business organizations It is divided into three parts focusing on the key technologies for constructing understanding and employing knowledge graphs Part 1 introduces basic background information and technologies and presents a simple architecture to elucidate the main phases and tasks required during the lifecycle of knowledge graphs Part 2 focuses on technical aspects it starts with state of the art knowledge graph construction approaches and then discusses exploration and

exploitation techniques as well as advanced question answering topics concerning knowledge graphs Lastly Part 3 demonstrates examples of successful knowledge graph applications in the media industry healthcare and cultural heritage and offers conclusions and future visions

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

Data Analysis, Machine Learning and Knowledge Discovery Myra Spiliopoulou,Lars Schmidt-Thieme,Ruth Janning,2013-11-26 Data analysis machine learning and knowledge discovery are research areas at the intersection of computer science artificial intelligence mathematics and statistics They cover general methods and techniques that can be applied to a vast set of applications such as web and text mining marketing medicine bioinformatics and business intelligence This volume contains the revised versions of selected papers in the field of data analysis machine learning and knowledge discovery presented during the 36th annual conference of the German Classification Society GfKl The conference was held at the University of Hildesheim Germany in August 2012

Knowledge Graphs and Semantic Web Sanju Tiwari,Boris Villazón-Terrazas,Fernando Ortiz-Rodríguez,Soror Sahri,2025-02-12 This book constitutes the refereed proceedings of the 6th International Conference on Knowledge Graphs and Semantic Web KGSWC 2024 held in Paris France during December 11 13 2024 The 22 full papers and 1 short paper presented were carefully reviewed and selected from 58 submissions They focus on latest scientific results and technology innovations related to the Knowledge Graphs and the Semantic Web

Designing and Building Enterprise Knowledge Graphs Juan Sequeda,Ora Lassila,2022-05-31 This book is a guide to designing and building knowledge graphs from enterprise relational

databases in practice It presents a principled framework centered on mapping patterns to connect relational databases with knowledge graphs the roles within an organization responsible for the knowledge graph and the process that combines data and people The content of this book is applicable to knowledge graphs being built either with property graph or RDF graph technologies Knowledge graphs are fulfilling the vision of creating intelligent systems that integrate knowledge and data at large scale Tech giants have adopted knowledge graphs for the foundation of next generation enterprise data and metadata management search recommendation analytics intelligent agents and more We are now observing an increasing number of enterprises that seek to adopt knowledge graphs to develop a competitive edge In order for enterprises to design and build knowledge graphs they need to understand the critical data stored in relational databases How can enterprises successfully adopt knowledge graphs to integrate data and knowledge without boiling the ocean This book provides the answers

The Semantic Web - ISWC 2024 Gianluca Demartini,Katja Hose,Maribel Acosta,Matteo Palmonari,Gong Cheng,Hala Skaf-Molli,Nicolas Ferranti,Daniel Hernández,Aidan Hogan,2024-11-26 This three volume set constitutes the proceedings of the 23rd International Semantic Web Conference ISWC 2023 held in Hanover MD USA during November 11 15 2024 The 44 full papers presented in these proceedings were carefully reviewed and selected from 155 submissions This conference focuses on research on the Semantic Web including benchmarks knowledge graphs tools and vocabularies Chapters 10 and 11 are available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com)

Computational Linguistics and Intelligent Text Processing Alexander Gelbukh,2018-10-09 The two volume set LNCS 10761 10762 constitutes revised selected papers from the CICLing 2017 conference which took place in Budapest Hungary in April 2017 The total of 90 papers presented in the two volumes was carefully reviewed and selected from numerous submissions In addition the proceedings contain 4 invited papers The papers are organized in the following topical sections Part I general morphology and text segmentation syntax and parsing word sense disambiguation reference and coreference resolution named entity recognition semantics and text similarity information extraction speech recognition applications to linguistics and the humanities Part II sentiment analysis opinion mining author profiling and authorship attribution social network analysis machine translation text summarization information retrieval and text classification practical applications

Linguistic Linked Data Philipp Cimiano,Christian Chiacaros,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 *Metadata and Semantics Research* Emmanouel Garoufallou, Imma Subirats Coll, Armando Stellato, Jane Greenberg, 2016-11-15 This book constitutes the refereed proceedings of the 10th Metadata and Semantics Research Conference MTSR 2016 held in G ttingen Germany in November 2016 The 26 full papers and 6 short papers presented were carefully reviewed and selected from 67 submissions The papers are organized in several sessions and tracks Digital Libraries Information Retrieval Linked and Social Data Metadata and Semantics for Open Repositories Research Information Systems and Data Infrastructures Metadata and Semantics for Agriculture Food and Environment Metadata and Semantics for Cultural Collections and Applications European and National Projects

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name date class time value persuasion presentation a introduction i ll open with an attentiongetting strategy ii thematic statement the theme of my speech is tochange the minds of my listeners to my point of view on mytopic iii

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there are three main approaches used to persuade others 1 ethos 2 pathos 3 logos the ethos approach appeals to the audience s ethics and morals such as what is the right see more

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a proposition of value is one that asserts a speaker s sense of values or a writer s sense of right and wrong it discusses good and bad just and unjust the beautiful and the ugly value claims make judgments and readers need to evaluate the evidence and assumptions supporting

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key points questions of fact contrast with questions of policy which state that something should be and questions of value which state that something is good bad beautiful or worthwhile three basic types of questions of fact are historical controversy questions of

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