Linked Data

Evolving the Web into a Global Data Space

Tom Heath

Christian Bizer

Linked Data Synthesis Lectures On The Semantic Web Theory And Technology

Ordóñez de Pablos, Patricia,Lytras, Miltiadis D.,Tennyson, Robert D.,Gayo, José Emilio Labra

Linked Data Synthesis Lectures On The Semantic Web Theory And Technology:

Linked Data Tom Heath,Christian Bizer,2022-05-31 The World Wide Web has enabled the creation of a global information space comprising linked documents As the Web becomes ever more enmeshed with our daily lives there is a growing desire for direct access to raw data not currently available on the Web or bound up in hypertext documents Linked Data provides a publishing paradigm in which not only documents but also data can be a first class citizen of the Web thereby enabling the extension of the Web with a global data space based on open standards the Web of Data In this Synthesis lecture we provide readers with a detailed technical introduction to Linked Data We begin by outlining the basic principles of Linked Data including coverage of relevant aspects of Web architecture The remainder of the text is based around two main themes the publication and consumption of Linked Data Drawing on a practical Linked Data scenario we provide guidance and best practices on architectural approaches to publishing Linked Data choosing URIs and vocabularies to identify and describe resources deciding what data to return in a description of a resource on the Web methods and frameworks for automated linking of data sets and testing and debugging approaches for Linked Data deployments We give an overview of existing Linked Data applications and then examine the architectures that are used to consume Linked Data from the Web alongside existing tools and frameworks that enable these Readers can expect to gain a rich technical understanding of Linked Data fundamentals as the basis for application development research or further study Table of Contents List of Figures Introduction Principles of Linked Data The Web of Data Linked Data Design Considerations Recipes for Publishing Linked Data Consuming Linked Data Summary and Outlook   Linked Open Data Tom Heath,2010   **Cases on Open-Linked Data and Semantic Web Applications** Ordóñez de Pablos, Patricia,Lytras, Miltiadis D.,Tennyson, Robert D.,Gayo, José Emilio Labra,2013-01-31 With the purpose of building upon standard web technologies open linked data serves as a useful way to connect previously unrelated data and to publish structured data on the web The application of these elements leads to the creation of data commons called semantic web Cases on Open Linked Data and Semantic Web Applications brings together new theories research findings and case studies which cover the recent developments and approaches towards applied open linked data and semantic web in the context of information systems By enhancing the understanding of open linked data in business science and information technologies this reference source aims to be useful for academics researchers and practitioners   **The Semantic Web. Latest Advances and New Domains** Harald Sack,Eva Blomqvist,Mathieu d'Aquin,Chiara Ghidini,Simone Paolo Ponzetto,Christoph Lange,2016-05-22 The 47 revised full papers presented together with three invited talks were carefully reviewed and selected from 204 submissions This program was completed by a demonstration and poster session in which researchers had the chance to present their latest results and advances in the form of live demos In addition the PhD Symposium program included 10 contributions selected out of 21 submissions The core tracks of the research conference were complemented with new tracks focusing on linked data

machine learning mobile web sensors and semantic streams natural language processing and information retrieval reasoning semantic data management big data and scalability services APIs processes and cloud computing smart cities urban and geospatial data trust and privacy and vocabularies schemas and ontologies *Publishing and Using Cultural Heritage Linked Data on the Semantic Web* Eero Hyvönen,2012 This book gives an overview on why when and how Linked Open Data and Semantic Web technologies can be employed in practice in publishing CH collections and other content on the Web The text first motivates and presents a general semantic portal model and publishing framework as a solution approach to distributed semantic content creation based on an ontology infrastructure On the Semantic Web such an infrastructure includes shared metadata models ontologies and logical reasoning and is supported by shared ontology and other Web services alleviating the use of the new technology and linked data in legacy cataloging systems Publisher s website **The Epistemology of Intelligent Semantic Web Systems** Mathieu d'Aquin,Enrico Motta,2022-05-31 The Semantic Web is a young discipline even if only in comparison to other areas of computer science Nonetheless it already exhibits an interesting history and evolution This book is a reflection on this evolution aiming to take a snapshot of where we are at this specific point in time and also showing what might be the focus of future research This book provides both a conceptual and practical view of this evolution especially targeted at readers who are starting research in this area and as support material for their supervisors From a conceptual point of view it highlights and discusses key questions that have animated the research community what does it mean to be a Semantic Web system and how is it different from other types of systems such as knowledge systems or web based information systems From a more practical point of view the core of the book introduces a simple conceptual framework which characterizes Intelligent Semantic Web Systems We describe this framework the components it includes and give pointers to some of the approaches and technologies that might be used to implement them We also look in detail at concrete systems falling under the category of Intelligent Semantic Web Systems according to the proposed framework allowing us to compare them analyze their strengths and weaknesses and identify the key fundamental challenges still open for researchers to tackle **Natural Language Processing for the Semantic Web** Diana Maynard,Kalina Bontcheva,Isabelle Augenstein,2022-05-31 This book introduces core natural language processing NLP technologies to non experts in an easily accessible way as a series of building blocks that lead the user to understand key technologies why they are required and how to integrate them into Semantic Web applications Natural language processing and Semantic Web technologies have different but complementary roles in data management Combining these two technologies enables structured and unstructured data to merge seamlessly Semantic Web technologies aim to convert unstructured data to meaningful representations which benefit enormously from the use of NLP technologies thereby enabling applications such as connecting text to Linked Open Data connecting texts to each other semantic searching information visualization and modeling of user behavior in online networks The first half of this book describes the basic NLP

processing tools tokenization part of speech tagging and morphological analysis in addition to the main tools required for an information extraction system named entity recognition and relation extraction which build on these components The second half of the book explains how Semantic Web and NLP technologies can enhance each other for example via semantic annotation ontology linking and population These chapters also discuss sentiment analysis a key component in making sense of textual data and the difficulties of performing NLP on social media as well as some proposed solutions The book finishes by investigating some applications of these tools focusing on semantic search and visualization modeling user behavior and an outlook on the future **Publishing and Using Cultural Heritage Linked Data on the Semantic Web** Eero Hyvonen,2022-05-31 Cultural Heritage CH data is syntactically and semantically heterogeneous multilingual semantically rich and highly interlinked It is produced in a distributed open fashion by museums libraries archives and media organizations as well as individual persons Managing publication of such richness and variety of content on the Web and at the same time supporting distributed interoperable content creation processes poses challenges where traditional publication approaches need to be re thought Application of the principles and technologies of Linked Data and the Semantic Web is a new promising approach to address these problems This development is leading to the creation of large national and international CH portals such as Europeana to large open data repositories such as the Linked Open Data Cloud and massive publications of linked library data in the U S Europe and Asia Cultural Heritage has become one of the most successful application domains of Linked Data and Semantic Web technologies This book gives an overview on why when and how Linked Open Data and Semantic Web technologies can be employed in practice in publishing CH collections and other content on the Web The text first motivates and presents a general semantic portal model and publishing framework as a solution approach to distributed semantic content creation based on an ontology infrastructure On the Semantic Web such an infrastructure includes shared metadata models ontologies and logical reasoning and is supported by shared ontology and other Web services alleviating the use of the new technology and linked data in legacy cataloging systems The goal of all this is to provide layman users and researchers with new more intelligent and usable Web applications that can be utilized by other Web applications too via well defined Application Programming Interfaces API At the same time it is possible to provide publishing organizations with more cost efficient solutions for content creation and publication This book is targeted to computer scientists museum curators librarians archivists and other CH professionals interested in Linked Data and CH applications on the Semantic Web The text is focused on practice and applications making it suitable to students researchers and practitioners developing Web services and applications of CH as well as to CH managers willing to understand the technical issues and challenges involved in linked data publication Table of Contents Cultural Heritage on the Semantic Web Portal Model for Collaborative CH Publishing Requirements for Publishing Linked Data Metadata Schemas Domain Vocabularies and Ontologies Logic Rules for Cultural Heritage Cultural Content Creation Semantic Services for Human and

Machine Users Conclusions   The Semantic Web: Semantics and Big Data Philipp Cimiano,Oscar Corcho,Valentina Presutti,Laura Hollink,Sebastian Rudolph,2013-05-20 This book constitutes the refereed proceedings of the 10th Extended Semantic Web Conference ESWC 2013 held in Montpellier France in May 2013 The 42 revised full papers presented together with three invited talks were carefully reviewed and selected from 162 submissions They are organized in tracks on ontologies linked open data semantic data management mobile Web sensors and semantic streams reasoning natural language processing and information retrieval machine learning social Web and Web science cognition and semantic Web and in use and industrial tracks The book also includes 17 PhD papers presented at the PhD Symposium   **Comprehensive Geographic Information Systems** ,2017-07-21 Geographical Information Systems Three Volume Set is a computer system used to capture store analyze and display information related to positions on the Earth s surface It has the ability to show multiple types of information on multiple geographical locations in a single map enabling users to assess patterns and relationships between different information points a crucial component for multiple aspects of modern life and industry This 3 volumes reference provides an up to date account of this growing discipline through in depth reviews authored by leading experts in the field VOLUME EDITORSThomas J CovaThe University of Utah Salt Lake City UT United StatesMing Hsiang TsouSan Diego State University San Diego CA United StatesGeorg BarethUniversity of Cologne Cologne GermanyChunqiao SongUniversity of California Los Angeles CA United StatesYan SongUniversity of North Carolina at Chapel Hill Chapel Hill NC United StatesKai CaoNational University of Singapore SingaporeElisabete A SilvaUniversity of Cambridge Cambridge United Kingdom Covers a rapidly expanding discipline providing readers with a detailed overview of all aspects of geographic information systems principles and applications Emphasizes the practical socioeconomic applications of GIS Provides readers with a reliable one stop comprehensive guide saving them time in searching for the information they need from different sources   **Usage Policies for Decentralised Information Processing** Sebastian Speiser,2014-05-14 Owners impose usage restrictions on their information which can be based e g on privacy laws copyright law or social conventions Often information is processed in complex constellations without central control In this work we introduce technologies to formally express usage restrictions in a machine interpretable way as so called policies that enable the creation of decentralised systems that provide consume and process distributed information in compliance with their usage restrictions   **Ontology Engineering** Elisa F. Kendall,Deborah L. McGuinness,2022-05-31 Ontologies have become increasingly important as the use of knowledge graphs machine learning natural language processing NLP and the amount of data generated on a daily basis has exploded As of 2014 90% of the data in the digital universe was generated in the two years prior and the volume of data was projected to grow from 3 2 zettabytes to 40 zettabytes in the next six years The very real issues that government research and commercial organizations are facing in order to sift through this amount of information to support decision making alone mandate increasing automation Yet the data profiling NLP and learning algorithms that are ground zero for

data integration manipulation and search provide less than satisfactory results unless they utilize terms with unambiguous semantics such as those found in ontologies and well formed rule sets Ontologies can provide a rich schema for the knowledge graphs underlying these technologies as well as the terminological and semantic basis for dramatic improvements in results Many ontology projects fail however due at least in part to a lack of discipline in the development process This book motivated by the Ontology 101 tutorial given for many years at what was originally the Semantic Technology Conference SemTech and then later from a semester long university class is designed to provide the foundations for ontology engineering The book can serve as a course textbook or a primer for all those interested in ontologies *Demystifying OWL for the Enterprise* Michael Uschold,2022-05-31 After a slow incubation period of nearly 15 years a large and growing number of organizations now have one or more projects using the Semantic Web stack of technologies The Web Ontology Language OWL is an essential ingredient in this stack and the need for ontologists is increasing faster than the number and variety of available resources for learning OWL This is especially true for the primary target audience for this book modelers who want to build OWL ontologies for practical use in enterprise and government settings The purpose of this book is to speed up the process of learning and mastering OWL To that end the focus is on the 30% of OWL that gets used 90% of the time Others who may benefit from this book include technically oriented managers semantic technology developers undergraduate and post graduate students and finally instructors looking for new ways to explain OWL The book unfolds in a spiral manner starting with the core ideas Each subsequent cycle reinforces and expands on what has been learned in prior cycles and introduces new related ideas Part 1 is a cook s tour of ontology and OWL giving an informal overview of what things need to be said to build an ontology followed by a detailed look at how to say them in OWL This is illustrated using a healthcare example Part 1 concludes with an explanation of some foundational ideas about meaning and semantics to prepare the reader for subsequent chapters Part 2 goes into depth on properties and classes which are the core of OWL There are detailed descriptions of the main constructs that you are likely to need in every day modeling including what inferences are sanctioned Each is illustrated with real world examples Part 3 explains and illustrates how to put OWL into practice using examples in healthcare collateral and financial transactions A small ontology is described for each along with some key inferences Key limitations of OWL are identified along with possible workarounds The final chapter gives a variety of practical tips and guidelines to send the reader on their way **An Introduction to Knowledge Graphs** Umutcan Serles,Dieter Fensel,2024-06-08 This textbook introduces the theoretical foundations of technologies essential for knowledge graphs It also covers practical examples applications and tools Knowledge graphs are the most recent answer to the challenge of providing explicit knowledge about entities and their relationships by potentially integrating billions of facts from heterogeneous sources The book is structured in four parts For a start Part I lays down the overall context of knowledge graph technology Part II Knowledge Representation then provides a deep understanding of semantics as the technical core of

knowledge graph technology Semantics is covered from different perspectives such as conceptual epistemological and logical Next Part III Knowledge Modelling focuses on the building process of knowledge graphs The book focuses on the phases of knowledge generation knowledge hosting knowledge assessment knowledge cleaning knowledge enrichment and knowledge deployment to cover a complete life cycle for this process Finally Part IV simply called Applications presents various application areas in detail with concrete application examples as well as an outlook on additional trends that will emphasize the need for knowledge graphs even stronger This textbook is intended for graduate courses covering knowledge graphs Besides students in knowledge graph Semantic Web database or information retrieval classes also advanced software developers for Web applications or tools for Web data management will learn about the foundations and appropriate methods

Handbook of Research on Technological Developments for Cultural Heritage and eTourism Applications Rodrigues, João M. F.,Ramos, Célia M.Q.,Cardoso, Pedro J. S.,Henriques, Cláudia,2017-11-30 Tourism is one of the most rapidly evolving industries of the 21st century The integration of technological advancements plays a crucial role in the ability for many countries all over the world to attract visitors and maintain a distinct edge in a highly competitive market The Handbook of Research on Technological Developments for Cultural Heritage and eTourism Applications is a pivotal reference source for the latest research findings on the utilization of information and communication technologies in tourism Featuring extensive coverage on relevant areas such as smart tourism user interfaces and social media this publication is an ideal resource for policy makers academicians researchers advanced level students and technology developers seeking current research on new trends in ICT systems and application and tourism *Managing and Consuming Completeness Information for RDF Data Sources* Fariz Darari,2019-11-15 The increasing amount of structured data available on the Web is laying the foundations for a global scale knowledge base But the ever increasing amount of Semantic Web data gives rise to the question how complete is that data Though data on the Semantic Web is generally incomplete some may indeed be complete In this book the author deals with how to manage and consume completeness information about Semantic Web data In particular the book explores how completeness information can guarantee the completeness of query answering Optimization techniques for completeness reasoning and the conducting of experimental evaluations are provided to show the feasibility of the approaches as well as a technique for checking the soundness of queries with negation via reduction to query completeness checking Other topics covered include completeness information with timestamps and two demonstrators CORNER and COOL WD are provided to show how a completeness framework can be realized Finally the book investigates an automated method to generate completeness statements from text on the Web The book will be of interest to anyone whose work involves dealing with Web data completeness **Incentive-Centric Semantic Web Application Engineering** Elena Simperl,Roberta Cuel,Martin Stein,2022-06-01 While many Web 2 0 inspired approaches to semantic content authoring do acknowledge motivation and incentives as the main drivers of user involvement the amount of useful

human contributions actually available will always remain a scarce resource Complementarily there are aspects of semantic content authoring in which automatic techniques have proven to perform reliably and the added value of human and collective intelligence is often a question of cost and timing The challenge that this book attempts to tackle is how these two approaches machine and human driven computation could be combined in order to improve the cost performance ratio of creating managing and meaningfully using semantic content To do so we need to first understand how theories and practices from social sciences and economics about user behavior and incentives could be applied to semantic content authoring We will introduce a methodology to help software designers to embed incentives minded functionalities into semantic applications as well as best practices and guidelines We will present several examples of such applications addressing tasks such as ontology management media annotation and information extraction which have been built with these considerations in mind These examples illustrate key design issues of incentivized Semantic Web applications that might have a significant effect on the success and sustainable development of the applications the suitability of the task and knowledge domain to the intended audience and the mechanisms set up to ensure high quality contributions and extensive user involvement Table of Contents Semantic Data Management A Human driven Process Fundamentals of Motivation and Incentives Case Study Motivating Employees to Annotate Content Case Study Building a Community of Practice Around Web Service Management and Annotation Case Study Games with a Purpose for Semantic Content Creation Conclusions   **Information Retrieval and Management: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2018-01-05 With the increased use of technology in modern society high volumes of multimedia information exists It is important for businesses organizations and individuals to understand how to optimize this data and new methods are emerging for more efficient information management and retrieval Information Retrieval and Management Concepts Methodologies Tools and Applications is an innovative reference source for the latest academic material in the field of information and communication technologies and explores how complex information systems interact with and affect one another Highlighting a range of topics such as knowledge discovery semantic web and information resources management this multi volume book is ideally designed for researchers developers managers strategic planners and advanced level students   **CeDEM14** Parycek, Peter,Edelmann, Noella,2014   **New Horizons for a Data-Driven Economy** José María Cavanillas,Edward Curry,Wolfgang Wahlster,2016-04-04 In this book readers will find technological discussions on the existing and emerging technologies across the different stages of the big data value chain They will learn about legal aspects of big data the social impact and about education needs and requirements And they will discover the business perspective and how big data technology can be exploited to deliver value within different sectors of the economy The book is structured in four parts Part I The Big Data Opportunity explores the value potential of big data with a particular focus on the European context It also describes the legal business and social dimensions that need to be addressed and briefly introduces the

European Commission s BIG project Part II The Big Data Value Chain details the complete big data lifecycle from a technical point of view ranging from data acquisition analysis curation and storage to data usage and exploitation Next Part III Usage and Exploitation of Big Data illustrates the value creation possibilities of big data applications in various sectors including industry healthcare finance energy media and public services Finally Part IV A Roadmap for Big Data Research identifies and prioritizes the cross sectorial requirements for big data research and outlines the most urgent and challenging technological economic political and societal issues for big data in Europe This compendium summarizes more than two years of work performed by a leading group of major European research centers and industries in the context of the BIG project It brings together research findings forecasts and estimates related to this challenging technological context that is becoming the major axis of the new digitally transformed business environment

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