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Semantics Empowered Web 3.0

*Managing Enterprise, Social, Sensor,
and Cloud-based Data and Services
for Advanced Applications*

Amit Sheth

Krishnaprasad Thirunarayan

SYNTHESIS LECTURES ON DATA MANAGEMENT

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Semantics Empowered Web 3.0 Managing Enterprise Social Sensor And Cloud Based Data And Services For Advanced Applications Synthesis Lectures On Data Management

Jie Tang, Juanzi Li



Semantics Empowered Web 3.0 Managing Enterprise Social Sensor And Cloud Based Data And Services For Advanced Applications Synthesis Lectures On Data Management:

Semantics Empowered Web 3.0 Amit Sheth, Krishnaprasad Thirunarayan, 2022-05-31 After the traditional document centric Web 1.0 and user generated content focused Web 2.0 Web 3.0 has become a repository of an ever growing variety of Web resources that include data and services associated with enterprises social networks sensors cloud as well as mobile and other devices that constitute the Internet of Things These pose unprecedented challenges in terms of heterogeneity variety scale volume and continuous changes velocity as well as present corresponding opportunities if they can be exploited Just as semantics has played a critical role in dealing with data heterogeneity in the past to provide interoperability and integration it is playing an even more critical role in dealing with the challenges and helping users and applications exploit all forms of Web 3.0 data This book presents a unified approach to harness and exploit all forms of contemporary Web resources using the core principles of ability to associate meaning with data through conceptual or domain models and semantic descriptions including annotations and through advanced semantic techniques for search integration and analysis It discusses the use of Semantic Web standards and techniques when appropriate but also advocates the use of lighter weight easier to use and more scalable options when they are more suitable The authors extensive experience spanning research and prototypes to development of operational applications and commercial technologies and products guide the treatment of the material Table of Contents Role of Semantics and Metadata Types and Models of Semantics Annotation Adding Semantics to Data Semantics for Enterprise Data Semantics for Services Semantics for Sensor Data Semantics for Social Data Semantics for Cloud Computing Semantics for Advanced Applications

Semantic Web Services Rudi Studer, Stephan Grimm, Andreas Abecker, 2010-10-15 In this volume Rudi Studer and his team deliver a self contained compendium about the exciting field of Semantic Web services starting with the basic standards and technologies and also including advanced applications in eGovernment and eHealth The contributions provide both the theoretical background and the practical knowledge necessary to understand the essential ideas and to design new cutting edge applications

The Semantic Web Vipul Kashyap, Christoph Bussler, Matthew Moran, 2008-08-15 The Semantic Web is a vision the idea of having data on the Web defined and linked in such a way that it can be used by machines not just for display purposes but for automation integration and reuse of data across various applications However there is a widespread misconception that the Semantic Web is a rehash of existing AI and database work Kashyap Bussler and Moran dispel this notion by presenting the multi disciplinary technological underpinnings such as machine learning information retrieval service oriented architectures and grid computing Thus they combine the informational and computational aspects needed to realize the full potential of the Semantic Web vision

Semantic Web Services Rudi Studer, Stephan Grimm, Andreas Abecker, 2007-05-03 In this volume Rudi Studer and his team deliver a self contained compendium about the exciting field of Semantic Web services starting

with the basic standards and technologies and also including advanced applications in eGovernment and eHealth The contributions provide both the theoretical background and the practical knowledge necessary to understand the essential ideas and to design new cutting edge applications The Semantic Web for Knowledge and Data Management Ma, Zongmin,Wang, Huaqing,2008-08-31 Provides a single record of technologies and practices of the Semantic approach to the management organization interpretation retrieval and use of Web based data *Semantic Services, Interoperability and Web Applications: Emerging Concepts* Sheth, Amit,2011-06-30 This book offers suggestions solutions and recommendations for new and emerging research in Semantic Web technology focusing broadly on methods and techniques for making the Web more useful and meaningful Provided by publisher *Semantic Mining of Social Networks* Jie Tang,Juanzi Li,2022-06-01 Online social networks have already become a bridge connecting our physical daily life with the web based information space This connection produces a huge volume of data not only about the information itself but also about user behavior The ubiquity of the social Web and the wealth of social data offer us unprecedented opportunities for studying the interaction patterns among users so as to understand the dynamic mechanisms underlying different networks something that was previously difficult to explore due to the lack of available data In this book we present the architecture of the research for social network mining from a microscopic point of view We focus on investigating several key issues in social networks Specifically we begin with analytics of social interactions between users The first kinds of questions we try to answer are What are the fundamental factors that form the different categories of social ties How have reciprocal relationships been developed from parasocial relationships How do connected users further form groups Another theme addressed in this book is the study of social influence Social influence occurs when one s opinions emotions or behaviors are affected by others intentionally or unintentionally Considerable research has been conducted to verify the existence of social influence in various networks However few literature studies address how to quantify the strength of influence between users from different aspects In Chapter 4 and in 138 we have studied how to model and predict user behaviors One fundamental problem is distinguishing the effects of different social factors such as social influence homophily and individual s characteristics We introduce a probabilistic model to address this problem Finally we use an academic social network ArnetMiner as an example to demonstrate how we apply the introduced technologies for mining real social networks In this system we try to mine knowledge from both the informative publication network and the social collaboration network and to understand the interaction mechanisms between the two networks The system has been in operation since 2006 and has already attracted millions of users from more than 220 countries regions *Semantic Web for the Working Ontologist* James Hendler,Fabien Gandon,Dean Allemang,2020-08-03 Enterprises have made amazing advances by taking advantage of data about their business to provide predictions and understanding of their customers markets and products But as the world of business becomes more interconnected and global enterprise data is no long a monolith it is just a part of a vast web of data

Managing data on a world wide scale is a key capability for any business today The Semantic Web treats data as a distributed resource on the scale of the World Wide Web and incorporates features to address the challenges of massive data distribution as part of its basic design The aim of the first two editions was to motivate the Semantic Web technology stack from end to end to describe not only what the Semantic Web standards are and how they work but also what their goals are and why they were designed as they are It tells a coherent story from beginning to end of how the standards work to manage a world wide distributed web of knowledge in a meaningful way The third edition builds on this foundation to bring Semantic Web practice to enterprise Fabien Gandon joins Dean Allemang and Jim Hendler bringing with him years of experience in global linked data to open up the story to a modern view of global linked data While the overall story is the same the examples have been brought up to date and applied in a modern setting where enterprise and global data come together as a living linked network of data Also included with the third edition all of the data sets and queries are available online for study and experimentation at data.worldsworld.org

The Social Semantic Web John G Breslin,Alexandre Passant,Stefan Decker,2009-10-03 The Social Web including services such as MySpace Flickr last fm and WordPress has captured the attention of millions of users as well as billions of dollars in investment and acquisition Social websites evolving around the connections between people and their objects of interest are encountering boundaries in the areas of information integration dissemination reuse portability searchability automation and demanding tasks like querying The Semantic Web is an ideal platform for interlinking and performing operations on diverse person and object related data available from the Social Web and has produced a variety of approaches to overcome the boundaries being experienced in Social Web application areas After a short overview of both the Social Web and the Semantic Web Breslin et al describe some popular social media and social networking applications list their strengths and limitations and describe some applications of Semantic Web technology to address their current shortcomings by enhancing them with semantics Across these social websites they demonstrate a twofold approach for interconnecting the islands that are social websites with semantic technologies and for powering semantic applications with rich community created content They conclude with observations on how the application of Semantic Web technologies to the Social Web is leading towards the Social Semantic Web sometimes also called Web 3.0 forming a network of interlinked and semantically rich content and knowledge The book is intended for computer science professionals researchers and graduates interested in understanding the technologies and research issues involved in applying Semantic Web technologies to social software Practitioners and developers interested in applications such as blogs social networks or wikis will also learn about methods for increasing the levels of automation in these forms of Web communication

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

Social Semantic Web Mining Tope Omitola, Sebastián A. Ríos, John G. Breslin, 2022-06-01 The past ten years have seen a rapid growth in the numbers of people signing up to use Web based social networks hundreds of millions of new members are now joining the main services each year with a large amount of content being shared on these networks tens of billions of content items are shared each month With this growth in usage and data being generated there are many opportunities to discover the knowledge that is often inherent but somewhat hidden in these networks Web mining techniques are being used to derive this hidden knowledge In addition the Semantic Web including the Linked Data initiative to connect previously disconnected datasets is making it possible to connect data from across various social spaces through common representations and agreed upon terms for people content items etc In this book we detail some current research being carried out to semantically represent the implicit and explicit structures on the Social Web along with the techniques being used to elicit relevant knowledge from these structures and we present the mechanisms that can be used to intelligently mesh these semantic representations with intelligent knowledge discovery processes We begin this book with an overview of the origins of the Web and then show how web intelligence can be derived from a combination of web and Social Web mining We give an overview of the Social and Semantic Webs followed by a description of the combined Social Semantic Web along with some of the possibilities it affords and the various semantic representation formats for the data created in social networks and on social media sites Provenance and provenance mining is an important aspect here especially when data is combined from multiple services We will expand on the subject of provenance and especially its importance in relation to social data We will describe extensions to social semantic vocabularies specifically designed for community mining purposes SIOCM In the last three chapters we describe how the combination of web intelligence and social semantic data can be used to derive knowledge from the Social Web starting at the community level macro and then moving through group mining meso to user profile mining micro

Data Management and Query Processing in Semantic Web Databases Sven Groppe, 2011-04-29 The Semantic Web which is intended to establish a machine understandable Web is currently changing from being an emerging trend to a technology used in complex real world applications A number of standards and techniques have been developed by the World Wide Web Consortium W3C e g the Resource Description Framework RDF which provides a general method for conceptual descriptions for Web resources and SPARQL an RDF querying language Recent examples of large RDF data with billions of facts include the UniProt comprehensive catalog of protein sequence function and annotation data the RDF data extracted from Wikipedia and Princeton University's WordNet Clearly querying performance has become a key issue for Semantic Web applications In

his book Groppe details various aspects of high performance Semantic Web data management and query processing His presentation fills the gap between Semantic Web and database books which either fail to take into account the performance issues of large scale data management or fail to exploit the special properties of Semantic Web data models and queries After a general introduction to the relevant Semantic Web standards he presents specialized indexing and sorting algorithms adapted approaches for logical and physical query optimization optimization possibilities when using the parallel database technologies of today s multicore processors and visual and embedded query languages Groppe primarily targets researchers students and developers of large scale Semantic Web applications On the complementary book webpage readers will find additional material such as an online demonstration of a query engine and exercises and their solutions that challenge their comprehension of the topics presented Semantic-Enabled Advancements on the Web: Applications Across Industries Sheth, Amit,2012-02-29 The body of research in all aspects of Semantic Web development design and application continues to grow alongside new trends in the information systems community Semantic Enabled Advancements on the Web Applications Across Industries reviews current and future trends in Semantic Web research with the aim of making existing and potential applications more accessible to a broader community of academics practitioners and industry professionals Covering topics including recommendation systems semantic search and ontologies this reference is a valuable contribution to the existing literature in this discipline Data Fabric Architectures Vandana Sharma,Balamurugan Balusamy,J. Joshua Thomas,L. Godlin Atlas,2023-05-22 The immense increase on the size and type of real time data generated across various edge computing platform results in unstructured databases and data silos This edited book gathers together an international set of researchers to investigate the possibilities offered by data fabric solutions the volume focuses in particular on data architectures and on semantic changes in future data landscapes **The Semantic Web: Research and Applications** Grigoris Antoniou,Marko Grobelnik,Elena Simperl,Bijan Parsia,Dimitris Plexousakis,Pieter de Leenheer,Jeff Z. Pan,2011-05-12 The books LNCS 6643 and 6644 constitute the refereed proceedings of the 8th European Semantic Web Conference ESWC 2011 held in Heraklion Crete Greece in May June 2011 The 57 revised full papers of the research track presented together with 7 PhD symposium papers and 14 demo papers were carefully reviewed and selected from 291 submissions The papers are organized in topical sections on digital libraries track inductive and probabilistic approaches track linked open data track mobile Web track natural language processing track ontologies track and reasoning track part I semantic data management track semantic Web in use track sensor Web track software services processes and cloud computing track social Web and Web science track demo track PhD symposium part II **Progressive Concepts for Semantic Web Evolution** Miltiadis D. Lytras,Amit Sheth,2010 Library of Congress Summary This book presents innovative educational and learning models that meet current complex educational demands Provided by publisher **Social Networks and the Semantic Web** Peter Mika,2007-10-23 Science is like a tree contrary to popular belief both trees and

science grow at their edges not at their core For science this means that most of the fruitful and exciting developments are not happening at the core of established elds but are instead happening at the boundaries between such elds This has been particularly true for Computer Science The most interesting database developments don t happen inside the Database community but rather where databases hit Biology Similarly the most interesting developments in Ar cial Intelligence in recent years have happened where AI met the Web Theyoung eldofSemanticWebresearchhasbeenoneoftheresultsofanumber of different sub elds of Computer Science being exposed to the challenges of the Web databases computational linguistics knowledge representation knowled based systems and service oriented computing are just some of the sub elds that are all making contributions to the Semantic Web vision namely a Web that consists not only of linksbetween web pagesfull of picturesand text but of a Semantic Web that consists of links between computer interpretable data Such a Semantic Web would make it possible to query and reason over integrated data sets consisting of separate pieces of information that were never intended to be linked together but that can nevertheless be fruitfully combined and integrated sometimes even by a third party who neither wrote nor ownsany of the original piecesof data just as is possible with web pages on the current Web

The Semantic Web: Research and Applications Elena Simperl,Philipp Cimiano,Axel Polleres,Oscar Corcho,Valentina Presutti,2012-05-11 This book constitutes the refereed proceedings of the 9th Extended Semantic Web Conference ESWC 2012 held in Heraklion Crete Greece in May 2012 The 53 revised full papers presented were carefully reviewed and selected from 212 submissions They are organized in tracks on linked open data machine learning natural language processing and information retrieval ontologies reasoning semantic data management services processes and cloud computing social Web and Web science in use and industrial digital libraries and cultural heritage and e government The book also includes 13 PhD papers presented at the PhD Symposium

The Semantic Web: Research and Applications Grigoris Antoniou,Marko Grobelnik,Elena Simperl,Bijan Parsia,Dimitris Plexousakis,Pieter De Leenheer,Jeff Z. Pan,2011-07-08 The books LNCS 6643 and 6644 constitute the refereed proceedings of the 8th European Semantic Web Conference ESWC 2011 held in Heraklion Crete Greece in May June 2011 The 57 revised full papers of the research track presented together with 7 PhD symposium papers and 14 demo papers were carefully reviewed and selected from 291 submissions The papers are organized in topical sections on digital libraries track inductive and probabilistic approaches track linked open data track mobile web track natural language processing track ontologies track and reasoning track part I semantic data management track semantic web in use track sensor web track software services processes and cloud computing track social web and web science track demo track PhD symposium part II

Semantic Web Services, Processes and Applications Jorge Cardoso,Amit P. Sheth,2006-12-26 Semantics Web services and Web processes promise better re use universal interoperability and integration Semantics has been recognized as the primary tool to address the challenges of a broad spectrum of heterogeneity and for improving automation through machine understandable descriptions Semantic Web Services Processes

and Applications brings contributions from researchers who study explore and understand the semantic enabling of all phases of semantic Web processes This encompasses design annotation discovery choreography and composition Also this book presents fundamental capabilities and techniques associated with ontological modeling or services annotation matching and mapping and reasoning This is complemented by discussion of applications in e Government and bioinformatics Special bulk rates are available for course adoption through Publishing Editor

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