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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 ...

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Figure 1.3: Evolution of Web Technologies. - "Semantics Empowered Web 3.0: Managing Enterprise, Social, Sensor, and Cloud-based Data and Services for Advanced Applications"

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Web 3.0: Semantic Web. October 8, 2018 · by Melville ·. The World Wide Web, the invention of Tim Berners-Lee in 1989, has been a phenomenal success. In just under 30 years, more than 3.81 billion people worldwide have used it, and the Web has grown more prominent over the years with a vast amount of information.

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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) Illustrated Edition. by Amit Sheth (Author), Krishnaprasad Thirunarayan (Author) 5.0 out of 5 stars 2 ratings. ISBN-13: 978-1608457168. ISBN-10: 9781608457168. Why is ISBN important?

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Table 2.1: Information Retrieval vs. Data Retrieval
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Web 3.0 is the third generation of internet services for websites and applications that will focus on using a machine-based understanding of data to provide a data-driven and semantic web. The ultimate goal of Web 3.0 is to create more intelligent, connected and open websites. Web 3.0 has not yet been implemented, so there is no solid definition. It took over ten years to transition from the original web, Web 1.0, to Web 2.0, and it is expected to take just as long, if not longer, to fully ...

After the traditional document-centric Web 1.0 and user-

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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

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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.

"This book provides a comprehensive reference source on

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next generation Web technologies and their
applications"--Provided by publisher.

Semantic Web for the Working Ontologist: Effective Modeling in RDFS and OWL, Second Edition, discusses the capabilities of Semantic Web modeling languages, such as RDFS (Resource Description Framework Schema) and OWL (Web Ontology Language). Organized into 16 chapters, the book provides examples to illustrate the use of Semantic Web technologies in solving common modeling problems. It uses the life and works of William Shakespeare to demonstrate some of the most basic capabilities of the Semantic Web. The book first provides an overview of the Semantic Web and aspects of the Web. It then discusses semantic modeling and

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how it can support the development from chaotic information gathering to one characterized by information sharing, cooperation, and collaboration. It also explains the use of RDF to implement the Semantic Web by allowing information to be distributed over the Web, along with the use of SPARQL to access RDF data. Moreover, the reader is introduced to components that make up a Semantic Web deployment and how they fit together, the concept of inferencing in the Semantic Web, and how RDFS differs from other schema languages. Finally, the book considers the use of SKOS (Simple Knowledge Organization System) to manage vocabularies by taking advantage of the inferencing structure of RDFS-Plus. This book is intended for the working ontologist who is trying to create a domain model on the

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Semantic Web. Updated with the latest developments and advances in Semantic Web technologies for organizing, querying, and processing information, including SPARQL, RDF and RDFS, OWL 2.0, and SKOS Detailed information on the ontologies used in today's key web applications, including ecommerce, social networking, data mining, using government data, and more Even more illustrative examples and case studies that demonstrate what semantic technologies are and how they work together to solve real-world problems

Provides a single record of technologies and practices of the Semantic approach to the management, organization, interpretation, retrieval, and use of Web-based data.

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This volume constitutes the refereed proceedings of ten international workshops, OTM Academy, Industry Case Studies Program, EI2N, INBAST, Meta4eS, OnToContent, ORM, SeDeS, SINCOM and SOMOCO 2012, held as part of OTM 2012 in Rome, Italy, in September 2012. The 66 revised full papers presented were carefully reviewed and selected from a total of 127 submissions. The volume also includes 7 papers from the On the Move Academy (OTMA) 2012 as well as 4 CoopIS 2012 poster papers and 5 ODBASE 2012 poster papers. The paper cover various aspects of computer supported cooperative work (CSCW), middleware, Internet/Web data management, electronic commerce, enterprise modelling, workflow management, knowledge flow,

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RDF-based knowledge graphs require additional formalisms to be fully context-aware, which is presented in this book. This book also provides a collection of provenance techniques and state-of-the-art metadata-enhanced, provenance-aware, knowledge graph-based representations across multiple application domains, in order to demonstrate how to combine graph-based data models and provenance representations. This is important to make statements authoritative, verifiable, and reproducible, such as in biomedical, pharmaceutical, and cybersecurity applications,

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where the data source and generator can be just as important as the data itself. Capturing provenance is critical to ensure sound experimental results and rigorously designed research studies for patient and drug safety, pathology reports, and medical evidence generation. Similarly, provenance is needed for cyberthreat intelligence dashboards and attack maps that aggregate and/or fuse heterogeneous data from disparate data sources to differentiate between unimportant online events and dangerous cyberattacks, which is demonstrated in this book. Without provenance, data reliability and trustworthiness might be limited, causing data reuse, trust, reproducibility and accountability issues. This book primarily targets researchers who utilize knowledge graphs in their methods and approaches (this includes

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researchers from a variety of domains, such as cybersecurity, eHealth, data science, Semantic Web, etc.). This book collects core facts for the state of the art in provenance approaches and techniques, complemented by a critical review of existing approaches. New research directions are also provided that combine data science and knowledge graphs, for an increasingly important research topic.

This book constitutes the refereed proceedings of the International RuleML Symposium, RuleML 2011-America, held in Fort Lauderdale, FL, USA, in November 2011 - collocated with the 22nd International Joint Conference on Artificial Intelligence, IJCAI 2011. It is the second of two RuleML events that take place in 2011. The first RuleML

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Symposium, RuleML 2011-Europe, has been held in Barcelona, Spain, in July 2011. The 12 full papers, 5 short papers and 5 invited track and position papers presented together with 3 keynote speeches were carefully reviewed and selected from numerous submissions. The accepted papers address a wide range of rules, semantic technology, and cross-industry standards, rules and automated reasoning, rule-based event processing and reaction rules, vocabularies, ontologies and business rules, cloud computing and rules, clinical semantics and rules.

Change Management for Semantic Web Services provides a thorough analysis of change management in the lifecycle of services for databases and workflows, including changes that

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occur at the individual service level or at the aggregate composed service level. This book describes taxonomy of changes that are expected in semantic service oriented environments. The process of change management consists of detecting, propagating, and reacting to changes. Change Management for Semantic Web Services is one of the first books that discuss the development of a theoretical foundation for managing changes in atomic and long-term composed services. This book also proposes a formal model and a change language to provide sufficient semantics for change management; it devises an automatic process to react to, verify, and optimize changes. Case studies and examples are presented in the last section of this book.

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The Web is evolving from a place where a prodigious amount of text and images are stored to a place where educational and other needs are serviced. The Web is becoming increasingly automated with functions that previously required human action undertaken automatically moving learners and other users more quickly to useful support. More and more such services interoperate with each other through computer programs and agents. This is the territory of semantic Web services and Web 3.0. Just as shop bots and auction bots abound in handling a particular task on the Web currently, in higher education of the future such related bots and agents will interact with the heterogeneous information that is the stuff of higher education. The scale of such agent-based mediation and linked data will grow over time. Increasingly,

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intelligent agents and bots will undertake tasks on behalf of their faculty, administrator, and student owners.

Collaborations among faculty and students around the world will be increasingly supported by semantic social networks capable of providing crucial functions. Students can be engaged in participating in the design and development of semantic Web applications in such areas as structuring and representing knowledge. The increasing availability of interactive educational tools and collaborative community-resources, such as wikis, can be the foundation for deploying semantically marked-up and social-connected educational spaces where students construct their own learning pathways in explorations of knowledge and creating new content integration. This volume will share visions and partial

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realizations of the impact of the semantic Web and
associated Web 3.0 features on higher education. This
volume will provide accounts of cutting-edge pedagogic
applications of the semantic Web with its extremely extensive
use of interconnecting information technologies.

Web technologies have become a vital element within
educational, professional, and social settings as they have
the potential to improve performance and productivity across
organizations. Artificial Intelligence Technologies and the
Evolution of Web 3.0 brings together emergent research and
best practices surrounding the effective usage of Web 3.0
technologies in a variety of environments. Featuring the latest
technologies and applications across industries, this

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publication is a vital reference source for academics, researchers, students, and professionals who are interested in new ways to use intelligent web technologies within various settings.

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