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Semantic Technology
Springer

The Web is growing at an astounding pace surpassing the 8 billion page mark. However, most pages are still designed for human

consumption and cannot be processed by machines. This book provides a well-paced introduction to the Semantic Web. It covers a wide range of topics, from new trends (ontologies, rules) to existing technologies (Web Services and software agents) to more formal aspects (logic and

inference). It includes: real-world (and complete) examples of the application of Semantic Web concepts; how the technology presented and discussed throughout the book can be extended to other application areas. *Emerging Technologies for Semantic Work Environments: Techniques, Methods, and*

Applications IGI Global 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.
Data Science with Semantic Technologies: New trends and future developments Springer Science & Business Media
 "This book investigates the application of semantic technologies to business and information systems engineering"--
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Semantic Technologies for Business and Information Systems Engineering Springer Science & Business Media

This open access book constitutes the refereed proceedings of the 15th International Conference on Semantic Systems, SEMANTiCS 2019, held in Karlsruhe, Germany, in September 2019. The 20 full papers and 8 short papers presented in this volume were carefully reviewed and selected from 88 submissions. They cover topics such as: web semantics and linked (open) data; machine learning and deep learning techniques; semantic information management and

knowledge integration; terminology, thesaurus and ontology management; data mining and knowledge discovery; semantics in blockchain and distributed ledger technologies.

Enhancing the Investigation of Malware-related Crimes Using Semantic Technologies

IGI Global
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.

Data Science with Semantic Technologies
Springer

This book constitutes the refereed proceedings of the 10th International Conference on Open Semantic Technologies for Intelligent System, OSTIS 2020, held in Minsk, Belarus, in February 2020. The 14 revised full papers and 2 short papers were carefully reviewed and selected from 62 submissions. The papers

mainly focus on standardization of intelligent systems and cover wide research fields including knowledge representation and reasoning, semantic networks, natural language processing, temporal reasoning, probabilistic reasoning, multi-agent systems, intelligent agents.

Semantic Web for the Working Ontologist
Springer Nature

"This book lays the foundations for understanding the concepts and

technologies behind the Semantic Web"--Provided by publisher.

Semantic Data Mining IOS Press

"As data is an important asset for any organization, it is essential to apply semantic technologies in data science to fulfill the need of any organization. This volume of a two-volume handbook set provides a roadmap for new trends and future developments of data science with semantic technologies"--
Semantic Technology MIT

Press

This highly topical text considers the construction of the next generation of the Web, called the Semantic Web. This will enable computers to automatically consume Web-based information, overcoming the human-centric focus of the Web as it stands at present, and expediting the construction of a whole new class of knowledge-based applications that will intelligently utilise Web content. The text is structured into three main sections on knowledge

representation techniques, reasoning with multi-agent systems, and knowledge services. For each of these topics, the text provides an overview of the state-of-the-art techniques and the popular standards that have been defined. Numerous small programming examples are given, which demonstrate how the benefits of the Semantic Web technologies can be realised at the present time. The main theoretical results underlying each of the technologies are

presented, and the main problems and research issues which remain are summarised. Based on a course on 'Multi-Agent Systems and the Semantic Web' taught at the University of Edinburgh, this text is ideal for final-year undergraduate and graduate students in Mathematics, Computer Science, Artificial Intelligence, and Logic and researchers interested in Multi-Agent Systems and the Semantic Web. *Current Trends in*

Semantic Web Technologies: Theory and Practice OUP Oxford
 With more substantial funding from research organizations and industry, numerous large-scale applications, and recently developed technologies, the Semantic Web is quickly emerging as a well-recognized and important area of computer science. While Semantic Web technologies are still rapidly evolving, *Foundations of Semantic Web Technologies* focuses **The Semantic Web**

Springer
 The Semantic Web has been a very important development in how knowledge is disseminated and manipulated on the Web, but it has been of particular importance to the flow of scientific knowledge, and will continue to shape how data is stored and accessed in a broad range of disciplines, including life sciences, earth science, materials science, and the social sciences. After first presenting papers on the

foundations of semantic e-science, including papers on scientific knowledge acquisition, data integration, and workflow, this volume looks at the state of the art in each of the above-mentioned disciplines, presenting research on semantic web applications in the life, earth, materials, and social sciences. Drawing papers from three semantic web workshops, as well as papers from several invited contributors, this volume illustrates how far semantic web applications

have come in helping to manage scientific information flow. Semantic Technologies for Elearning John Wiley & Sons Techniques for the industrial implementation of emerging semantic technologies are presented in this research. Every new design, project, and procedure within a company generates a considerable amount of new information and important knowledge. Furthermore, a tremendous amount of

legacy knowledge already exists within companies in electronic and non-electronic formats. All of this generated knowledge results in the need for tools and techniques to represent, structure, and reuse this knowledge. Researchers have spent considerable time and effort developing semantic knowledge management systems, with anticipation that these tools will address these knowledge management needs. However, little has been done to implement these

systems within an industrial setting. In this thesis, we identify five main requirements for the development of an industry-ready, semantic knowledge management system, and we discuss how each of these requirements can be methodically addressed. The five requirements include the incorporation of legacy information, the ease of new knowledge management software adoption, the robustness of the software to support multiple file types and allow for the sharing of

information across platforms, the security of the stored information, and the ease of use of the user interface. In collaboration with Raytheon, a defense and aerospace systems company, we developed and demonstrated a novel approach for the successful adoption of semantic abilities by a commercial company. Salient features of this work include a new tool, the e-Design MemoExtractor Software Tool, custom designed to mine and capture

company information, a Raytheon-specific ontology extension to the e-Design Framework, and a novel semantic environment in the form of a customized semantic media wiki SMW+. The advantages of this approach and the associated research issues are discussed in the context of the industrial case study with Raytheon.

Semantic Technologies for Intelligent Industry 4.0 Applications

Springer Nature
"As data is an important

asset for any organization, it is essential to apply semantic technologies in data science to fulfill the need of any organization. This volume of a two-volume handbook set provides a roadmap for new trends and future developments of data science with semantic technologies"--
Spinning the Semantic Web Springer
This book constitutes the thoroughly refereed proceedings of the 8th Joint International Semantic Technology

Conference, JIST 2018, held in Awaji, Japan, in November 2018. The 23 full papers and 6 short papers presented were carefully reviewed and selected from 75 submissions. They present applications of semantic technologies, theoretical results, new algorithms and tools to facilitate the adoption of semantic technologies and are organized in topical sections on knowledge graphs; data management; question answering and NLP; ontology and reasoning;

government open data; and semantic web for life sciences.

Semantic Technologies for Business and Information Systems Engineering CRC Press

As the world enters the era of big data, there is a serious need to give a semantic perspective to the data in order to find unseen patterns, derive meaningful information, and make intelligent decisions. Semantic technologies offer the richest machine-interpretable (rather than just machine-processable)

and explicit semantics that are being extensively used in various domains and industries. These technologies reduce the problem of large semantic loss in the process of modelling knowledge, and provide sharable, reusable knowledge, and a common understanding of the knowledge. As a result, the interoperability and interconnectivity of the model make it priceless for addressing the issues of querying data. These technologies work with the concepts and relations that are

very lose to the working of the human brain. They provide a semantic representation of any data format: unstructured or semi-structured. As a consequence, data becomes real-world entity rather than a string of characters. For these reasons, semantic technologies are highly valuable tools to simplify the existing problems of the industry leading to new opportunities. However, there are some challenges that need to be addressed to make industrial applications and

machines smarter. This book aims to provide a roadmap for semantic technologies and highlights the role of these technologies in industry. The book also explores the present and future prospects of these semantic technologies along with providing answers to various questions like: Are semantic technologies useful for the next era (industry 4.0)? Why are semantic technologies so popular and extensively used in the industry? Can semantic technologies

make intelligent industrial applications? Which type of problem requires the immediate attention of researchers? Why are semantic technologies very helpful in people's future lives? This book will potentially serve as an important guide towards the latest industrial applications of semantic technologies for the upcoming generation, and thus becomes a unique resource for scholars, researchers, professionals and practitioners in the field.
Semantic Web

Technologies Springer

This book constitutes the refereed proceedings of the 20th International Conference on The Semantic Web, ESWC 2023, held in Hersonissos, Crete, Greece, during May 28–June 1, 2023. The 41 full papers included in this book were carefully reviewed and selected from 167 submissions. They are organized in topical sections as follows: research, resource and in-use. [Special Issue on Systems Development by Means of Semantic Technologies](#)

Springer

A guide to the Semantic Web, which will transform the Web into a structured network of resources organized by meaning and relationships.

It's Not Just Semantics

IGI Global

"This book investigates the application of semantic technologies to business and information systems engineering"-- Provided by publisher.

[The Semantic Web](#)

Springer Nature

The Semantic Web combines the descriptive languages RDF (Resource

Description Framework) and OWL (Web Ontology Language), with the data-centric, customizable XML (eXtensible Mark-up Language) to provide descriptions of the content of Web documents. These machine-interpretable descriptions allow more intelligent software systems to be written, automating the analysis and exploitation of web-based information. Software agents will be able to create automatically new services from already

published services, with potentially huge implications for models of e-Business. *Semantic Web Technologies* provides a comprehensive overview of key semantic knowledge technologies and research. The authors explain (semi-)automatic ontology generation and metadata extraction in depth, along with ontology management and mediation. Further chapters examine how Semantic Web technology is being applied in knowledge management (“Semantic Information

Access”) and in the next generation of Web services. *Semantic Web Technologies: Provides a comprehensive exposition of the state-of-the art in Semantic Web research and key technologies.* Explains the use of ontologies and metadata to achieve machine-interpretability. Describes methods for ontology learning and metadata generation. Discusses ontology management and evolution, covering ontology change detection and propagation, ontology

dependency and mediation. Illustrates the theoretical concepts with three case studies on industrial applications in digital libraries, the legal sector and the telecommunication industry. Graduate and advanced undergraduate students, academic and industrial researchers in the field will all find *Semantic Web Technologies* an essential guide to the technologies of the Semantic Web. [Semantic Systems. The Power of AI and Knowledge Graphs](#)

Springer Science &
Business Media

This book constitutes the proceedings of the Second Joint International Semantic Technology Conference, JIST 2012, held in Nara, Japan, in December 2012. The 20 full papers and 13 short

papers included in this volume were carefully reviewed and selected from 90 submissions. The regular papers deal with ontology and description logics; RDF and SPARQL; learning and discovery; semantic search;

knowledge building; semantic Web application. The in-use track papers cover topics on social semantic Web and semantic search; and the special track papers have linked data in practice and database integration as a topic.

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