

Semantics Empowered Web 3.0 Managing Enterprise Social Sensor And Cloud Based Data And Services For Advanced Applications Krishnaprasad Thirunarayan

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Techniques, Methods, and Applications World Scientific Publishing Company
 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 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.

Semantic Web and Model-Driven Engineering Springer Science & Business Media

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 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.
Managing Enterprise, Social, Sensor, and Cloud-based Data and Services for Advanced Applications Springer Science & Business Media

An accessible guide to the ideas and technologies underlying such applications as GPS, Google Maps, Pokémon Go, ride-sharing, driverless cars, and drone surveillance. Billions of people around the globe use various applications of spatial computing daily—by using a ride-sharing app, GPS, the e911 system, social media check-ins, even Pokémon Go. Scientists and researchers use spatial computing to track diseases, map the bottom of the oceans, chart the behavior of endangered species, and create election maps in real time. Drones and driverless cars use a variety of spatial computing technologies. Spatial computing works by understanding the physical world, knowing and communicating our relation to places in that world, and navigating through those places. It has changed our lives and infrastructures profoundly, marking a significant shift in how we make our way in the world. This volume in the MIT Essential Knowledge series explains the technologies and ideas behind spatial computing. The book offers accessible descriptions of GPS and location-based services, including the use of Wi-Fi, Bluetooth, and RFID for position determination out of satellite range; remote sensing, which uses satellite and aerial platforms to monitor such varied

phenomena as global food production, the effects of climate change, and subsurface natural resources on other planets; geographic information systems (GIS), which store, analyze, and visualize spatial data; spatial databases, which store multiple forms of spatial data; and spatial statistics and spatial data science, used to analyze location-related data.

Learning on Demand Springer Science & Business Media

As the first volume of World Scientific Encyclopedia with Semantic Computing and Robotic Intelligence, this volume is designed to lay the foundation for the understanding of the Semantic Computing (SC), as a core concept to study Robotic Intelligence in the subsequent volumes. This volume aims to provide a reference to the development of Semantic Computing, in the terms of "meaning", "context", and "intention". It brings together a series of technical notes, in average, no longer than 10 pages in length, each focuses on one topic in Semantic Computing; being review article or research paper, to explain the fundamental concepts, models or algorithms, and possible applications of the technology concerned. This volume will address three core areas in Semantic Computing: Understanding the (possibly naturally-expressed) intentions (semantics) of users and expressing them in a machine-processable format: Semantics description languages, ontology integration, interoperability Understanding the meanings (semantics) of computational content (of various sorts, including, but is not limited to, text, video, audio, process, network, software and hardware) and expressing them in a machine-processable format in Multimedia, IoT, SDN, wearable computing, interfactable with mobile computing, search engines, question answering, web services, to support applications in biomedicine, healthcare, manufacturing, engineering, education, finance, entertainment, business, science and humanity Mapping the semantics of the user in context for content retrieval, management, creation in the form of structured data, image and video, audio and speech, big data, natural language, deep learning.

Concepts, Methodologies, Tools, and Applications Springer

This book discusses the application of various statistical methods to texts, rather than numbers, in various fields in behavioral science. It proposes an approach where quantitative methods are applied to data whereas previously such data were analyzed only by qualitative research methods. To emphasize the quantitative aspects of semantics, and the possibilities of conducting scientific interferences, the book introduces the concept of statistical semantics and presents the reader with a subset of techniques found in that domain. More specifically, the book focuses on methods that allow the investigation of semantic relationships between words, based on empirical corpus data. It shows the reader how to apply various statistical methods on texts, for example statistical tests to ascertain whether two sets of text are statistically different, ways to predict variables from text, as well as how to summarize and graphically illustrate texts. Thus, the book presents an accessible hands-on introduction to a selection of techniques, indispensable for cognitive psychologists, linguists, and social psychologists.

Semantic Web, Semantic Web Services, and Business Applications American Society for Training and Development

This comprehensive text explains the principles and practice of Web services and relates all concepts to practical examples and emerging standards. Its discussions include: Ontologies Semantic web technologies Peer-to-peer service discovery Service selection Web structure and link analysis Distributed transactions Process modelling Consistency management. The application of these technologies is clearly explained within the context of planning, negotiation, contracts, compliance, privacy, and network policies. The presentation of the intellectual underpinnings of Web services draws from several key disciplines such as databases, distributed computing, artificial intelligence, and multi-agent systems for techniques and formalisms. Ideas from these disciplines are united in the context of Web services and service-based applications. Featuring an accompanying website and teacher's manual that includes a complete set of transparencies for lectures, copies of open-source software for exercises and working implementations, and resources to conduct course projects, this book makes an excellent graduate textbook. It will also prove an invaluable reference and training tool for practitioners.

Information and Communication Technologies in Tourism 2016 IGI Global

"This book addresses how we can make the Web more useful, more intelligent, more knowledge intensive to fulfill our more and more demanding learning and working needs? It is based on the premise that representing knowledge visually is key for individuals and organizations to enable useful access to the knowledge era"--Provided by publisher.

Artificial Intelligence Technologies and the Evolution of Web 3.0 John Wiley & Sons

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.

Effective Modeling in RDFS and OWL John Wiley & Sons

We live in a wireless society, one where convenience and accessibility determine the efficacy of the latest electronic gadgets and mobile devices. Making the most of these technologies—and ensuring their security against potential attackers—requires increased diligence in mobile technology research and development. Mobile Computing and Wireless Networks: Concepts, Methodologies, Tools, and Applications brings together a comprehensive range of voices and research in the area of mobile and wireless technologies, exploring the successes and failures, advantages and drawbacks, and benefits and limitations of the technology. With applications in a plethora of different research and topic areas, this multi-volume reference work benefits researchers, service providers, end-users, and information technology professionals. This four-volume reference work includes a diverse array of chapters and authors covering topics such as m-commerce, network ethics, mobile agent systems, mobile learning, communications infrastructure, and applications in fields such as business, healthcare, government, tourism, and more.

Advanced Concepts, Methods, and Applications in Semantic Computing Springer

"This book provides an analysis and introduction on the concept of combining the areas of semantic web and web mining, emphasizing semantics in technologies, reasoning, content searching and social media"--Provided by publisher.

Semantics, Analytics and Knowledge Elsevier

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 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.

The Semantic Web - ISWC 2021 IAP

Ontology Management provides an up-to-date, scientifically correct, concise and easy-to-read reference on this topic. The book includes relevant tasks, practical and theoretical challenges, limitations and methodologies, plus available tooling support. The editors discuss integrating the conceptual and technical dimensions with a business view on using ontologies, stressing the cost dimension of ontology engineering and offering guidance on how to derive ontologies semi-automatically from existing standards and specifications.

Semantic Web-Based Information Systems: State-of-the-Art Applications CRC Press

In the modern age of the 4th Industrial Revolution, advancements in communication and connectivity are transforming the professional world as new technologies are being embedded into society. These innovations have triggered the development of a digitally driven world where adaptation is necessary. This is no different in the architectural field, where the changing paradigm has opened new methods and advancements that have yet to be researched. Impact of Industry 4.0 on Architecture and Cultural Heritage is a pivotal reference source that provides vital research on the application of new technological tools, such as digital modeling, within architectural design,

and improves the understanding of the strategic role of Industry 4.0 as a tool to empower the role of architecture and cultural heritage in society. Moreover, the book provides insights and support concerned with advances in communication and connectivity among digital environments in different types of research and industry communities. While highlighting topics such as semantic processing, crowdsourcing, and interactive environments, this publication is ideally designed for architects, engineers, construction professionals, cultural researchers, academicians, and students. *Semantic Web Engineering in the Knowledge Society* John Wiley & Sons
"This book provides a comprehensive reference source on next generation Web technologies and their applications"--Provided by publisher.

Emergent Web Intelligence: Advanced Semantic Technologies IGI Global

Semantics Empowered Web 3.0 Managing Enterprise, Social, Sensor, and Cloud-based Data and Services for Advanced Applications Morgan & Claypool Publishers
Semantic Computing Semantics Empowered Web 3.0 Managing Enterprise, Social, Sensor, and Cloud-based Data and Services for Advanced Applications

Focused on the latest mobile technologies, this book addresses specific features (such as IoT) and their adoptions that aim to enable excellence in business in Industry 4.0. Furthermore, this book explores how the adoption of these technologies is related to rising concerns about privacy and trusted communication issues that concern management and leaders of business organizations. Managing IoT and Mobile Technologies with Innovation, Trust, and Sustainable Computing not only targets IT experts and drills down on the technical issues but also provides readers from various groups with a well-linked concept about how the latest trends of mobile technologies are closely related to daily living and the workplace at managerial and even individual levels.

Models and Ontologies IGI Global

This book constitutes the proceedings of the satellite events held at the 18th Extended Semantic Web Conference, ESWC 2021, in June 2021. The conference was held online, due to the COVID-19 pandemic. During ESWC 2021, the following six workshops took place: 1) the Second International Workshop on Deep Learning meets Ontologies and Natural Language Processing (DeepOntoNLP 2021) 2) the Second International Workshop on Semantic Digital Twins (SeDiT 2021) 3) the Second International Workshop on Knowledge Graph Construction (KGC 2021) 5) the 6th International Workshop on eXplainable SENTiment Mining and Emotion deTection (X-SENTIMENT 2021) 6) the 4th International Workshop on Geospatial Linked Data (GeoLD 2021).

Ontology Management IGI Global

Extending beyond the technical architecture to the very philosophy of how a business should operate, the Service Orientation approach establishes fluidity across boundaries to provide agility, transparency, and fundamental competitive advantage. Service Oriented Enterprises brings the concept of service orientation from the IT department to the boardroom, applying the precepts of service oriented technology to the underlying dynamics of how a business operates. Implementing a technological concept as a cultural paradigm, the SOE succeeds by combining the best features from virtual, extended, real-time, and resilient enterprises to serve not just its customers, but also its trading partners, shareholders and employees. Building primarily on the success of the Internet and the automation of business policies and processes, the Service Oriented Enterprise (SOE) is defined by three essential layers: the enterprise performance layer, the business process management layer, and the underlying service oriented architecture. This book focuses primarily on layers two and three and how the fundamental dynamics of a business can be altered when these concepts are applied to both architecture and culture. Beginning with an overview of the emerging SOE culture, the text contrasts the new service-oriented methodologies with traditional waterfall and iterative methodologies. Emphasizing Web Service strategies for description, discovery, and deployment techniques, the author goes deeper into service-oriented concepts describing the business process management suite as the central core of the SOE, and introducing the Enterprise Service Bus as the backbone for integration. The text describe how modeling, executing, and continuously improving the business process and business policies leads to the development of a common language between business and IT. The book concludes by expanding on these concepts and delving into the societal and behavioral aspects of the Service Oriented Enterprise. The reality of business is no longer one where change is an unusual phenomenon; today change is the norm and the capacity for consumer-sensitive, fluid transition is vital to business survival. Service Oriented Enterprises provides the key concepts to facilitate that change. **Managing IoT and Mobile Technologies with Innovation, Trust, and Sustainable Computing** IGI Global

Semantic computing is critical for the development of semantic systems and applications that must utilize semantic analysis, semantic description, semantic interfaces, and semantic integration of data and services to deliver their objectives. Semantic computing has enormous capabilities to enhance the efficiency and throughput of systems that are based on key emerging concepts and technologies such as semantic web, internet of things, blockchain technology, and knowledge graphs. Thus, research that expounds advanced concepts, methods, technologies, and applications of semantic computing for solving challenges in real-world domains is vital. *Advanced Concepts, Methods, and Applications in Semantic Computing* is a scholarly reference book that provides a sound theoretical foundation for the application of semantic methods, concepts, and technologies

for practical problem solving. It is designed as a comprehensive and reliable resource on how semantic-oriented approaches can be used to aid new emergent technologies and tackle real-world problems. Covering topics that include deep learning, machine learning, blockchain technology, and semantic web services, this book is ideal for professionals, academicians, researchers, and students working in the field of semantic computing in various disciplines, including but not limited to software engineering, systems engineering, knowledge engineering, electronic commerce, computer science, and information technology. [Growing Personalization and Wider Interconnections in Learning](#) IGI Global
The concept of "Web 2.0" began with a conference brainstorming session between O'Reilly and MediaLive International. Dale Dougherty, web pioneer and O'Reilly VP, noted that far from having

"crashed", the web was more important than ever, with exciting new applications and sites popping up with surprising regularity. What's more, the companies that had survived the collapse seemed to have some things in common. Could it be that the dot-com collapse marked some kind of turning point for the web, such that a call to action such as "Web 2.0" might make sense? We agreed that it did, and so the Web 2.0 Conference was born. In the year and a half since, the term "Web 2.0" has clearly taken hold, with more than 9.5 million citations in Google. But there's still a huge amount of disagreement about just what Web 2.0 means, with some people decrying it as a meaningless marketing buzzword, and others accepting it as the new conventional wisdom. This article is an attempt to clarify just what we mean by Web 2.0.

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