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Oxford Semantic Technologies

The RDFox Getting Started Guide, E1: How to start and use the RDFox Web Console DCAF 2021: Oxford Semantics Technology with Mark Wood The RDFox Getting Started Guide, E2: How to Use SPARQL Queries and Updates in the RDFox Web Console Ask Ian: How LLMs work and how to make them more useful for business? Getting Started with RDFox - Webinar Ask Ian: How did RDFox begin? Olympics Linked Data Platform - Wallscope and Oxford Semantic Technologies Joint Solution Stanford Lecture: Mathematical Writing - Minicourse on technical writing (1) The Simple Question that Stumped Everyone Except Marilyn vos Savant Module 03: Walkthrough of Semantic Technologies: RDF, SPARQL, OWL, and R2ML [Emanuele Della Valle] □ What (exactly) is Semantic SEO? Entities? Google Knowledge Graph!!?! How Fixing My Study Setup Changed My Entire Life Prof. Geoffrey Hinton - \"Will digital intelligence replace biological intelligence?\" Romanes Lecture How to Take Great Notes for School and Work with an ePaper Device An Introduction to the Semantic Web Find it Free: eBooks | Technology Education The Business Case for Semantic Web Ontology \u0026 Knowledge Graph The RDFox Getting Started Guide, E0: How to download and start RDFox on Windows and Mac DL 2020 - Industry panel - Yavor Nenov (Oxford Semantic Technologies) Configuration Management, with RDFox - Webinar Semantic Layer Technical Deep Dive Ask Ian: What are your motivations for RDFox?

MARIANA CLARA

The Semantic Web – ISWC 2014 Focal Press
Today's work is characterized by a high degree of innovation and thus demands a thorough overview of relevant knowledge in the world and in organizations. Semantic Work Environments support the work of the user by collecting knowledge about needs and providing processed and improved knowledge to be integrated into work. Emerging Technologies for Semantic Work Environments: Techniques, Methods, and Applications describes an overview of the emerging field of Semantic Work Environments by combining various research studies and underlining the similarities between different processes, issues and approaches in order to provide the reader with techniques, methods, and applications of the study.

Data Science with Semantic Technologies

Springer Science & Business Media
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.
Metadata and Semantics Research IOS Press
Media technologies now provide facts, answers, and “knowledge” to people – search engines, apps, and virtual assistants increasingly articulate responses rather than direct people to other sources. Semantic Media is about this emerging era of meaning-making technologies. Companies like Apple, Google, Facebook, Amazon, and Microsoft organize information in new media products that seek to “intuitively” grasp what people want to know and the actions they want to take. This book describes some of the insidious technological practices through which organizations achieve this while addressing the changing contexts of internet searches, and examines the social and political consequences of what happens when large companies become primary sources of information. Written in an accessible style, Semantic Media will be of interest to students and scholars in media, science and technology, communication, and internet studies, as well as professionals wanting to learn more about the changing dynamics of contemporary data practices.
Social and Professional Applications of Actor-Network Theory for Technology Development Oxford University Press on Demand
"This book discusses the new technologies of semantic Web, transforming the way we use information and knowledge"--Provided by publisher.
Handbook of Semantic Web Technologies John Benjamins Publishing Company
The two-volume set LNCS 9981 and 9982 constitutes the refereed proceedings of the 15th International Semantic Web Conference, ISWC 2016, which was held in Kobe, Japan, in October 2016. The 75 full papers presented in these proceedings were carefully reviewed and selected from 326 submissions. The International Semantic Web Conference is the premier forum for Semantic Web research, where cutting edge scientific results and technological innovations are presented, where problems and solutions are discussed, and where the future of this vision is being developed. It brings together specialists in fields such as artificial intelligence, databases, social networks, distributed computing, Web engineering, information systems, human-computer interaction, natural language processing, and the social sciences. The Research Track solicited novel and significant research contributions addressing theoretical, analytical, empirical, and practical aspects of the Semantic Web. The Applications Track solicited submissions exploring the benefits and challenges of applying semantic technologies in concrete, practical applications, in contexts ranging from industry to government and science. The newly introduced Resources Track sought submissions providing a concise and clear description of a resource and its (expected) usage. Traditional resources include ontologies, vocabularies, datasets, benchmarks and replication studies, services and software. Besides more established types of resources, the track solicited submissions of new types of resources such as ontology design patterns, crowdsourcing task designs, workflows, methodologies, and protocols and measures.
The Semantic Web Springer
The two volume set LNCS 12506 and 12507 constitutes the proceedings of the 19th International Semantic Web Conference, ISWC 2020, which was planned to take place in Athens, Greece, during November 2-6, 2020. The conference changed to a virtual format due to the COVID-19 pandemic. The papers included in this volume deal with the latest advances in fundamental research, innovative technology, and applications of the Semantic Web, linked data, knowledge graphs, and knowledge processing on the Web. They were carefully reviewed and selected for inclusion in the proceedings as follows: Part I: Features 38 papers from the research track which were accepted from 170 submissions; Part II: Includes 22 papers from the resources track which were accepted from 71 submissions; and 21 papers in the in-use track, which had a total of 46 submissions. Chapter “Transparent Integration and Sharing of Life Cycle Sustainability Data with Provenance ” is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.
Ontologies and Semantic Technologies for Intelligence IOS Press
The success of the World Wide Web depends on the ability of users to store, p- cess and retrieve digital information regardless of distance boundaries, languages and domains of knowledge. The universality and ?exibility of the World Wide Web have also enabled the rapid growth of a variety of new services and applications based on human–machine interaction. The semantics of exchanged information and services should be useful not only for human to human communications, but also in that machines would be able to understand and automatically process

web content. Semanticsgive well-de?nedmeaningto web content and enable computersand p- ple to work in cooperation. Today, the crucial challenge becomes the development of languages to express information in a machine processable format. Now more than ever, new advanced techniques and intelligent approaches are required to tra- form the Web into a universal reasoning and computing machine. Web intelligence attempts to deal with this challenge by exploiting information technologies and - ti?cial intelligence approaches to design the next generation of web-empowered systems and services.

CAA2016: Oceans of Data

IGI Global
Gone are the days when data was interlinked with related data by humans and human interpretation was required. Data is no longer just data. It is now considered a Thing or Entity or Concept with meaning, so that a machine not only understands the concept but also extrapolates the way humans do. Data Science with Semantic Technologies: Deployment and Exploration, the second volume of a two-volume handbook set, provides a roadmap for the deployment of semantic technologies in the field of data science and enables the user to create intelligence through these technologies by exploring the opportunities and eradicating the challenges in the current and future time frame. In addition, this book offers the answer to various questions like: What makes a technology semantic as opposed to other approaches to data science? What is knowledge data science? How does knowledge data science relate to other fields? This book explores the optimal use of these technologies to provide the highest benefit to the user under one comprehensive source and title. As there is no dedicated book available in the market on this topic at this time, this book becomes a unique resource for scholars, researchers, data scientists, professionals, and practitioners. This volume can serve as an important guide toward applications of data science with semantic technologies for the upcoming generation.
Emerging Topics in Semantic Technologies Springer
Data science, informatics and technology have inspired health professionals and informaticians to improve healthcare for the benefit of all patients, and the field of biomedical and health informatics is one which has become increasingly important in recent years. This volume presents the papers delivered at ICIMTH 2022, the 20th International Conference on Informatics, Management, and Technology in Healthcare, held in Athens, Greece, from 1-3 July 2022. The ICIMTH Conference is an annual scientific event attended by scientists from around the world working in the field of biomedical and health informatics. This year, thanks to the improvement in the situation as regards the COVID-19 pandemic and the consequent lifting of restrictions, the conference was once again a live event, but virtual sessions by means of teleconferencing were also enabled for those unable to travel due to local restrictions. The field of biomedical and health informatics was examined from a very broad perspective, with participants presenting the research and application outcomes of informatics from cell to populations, including several technologies such as imaging, sensors, biomedical equipment, and management and organizational aspects, including legal and social issues. More than 230 submissions were received, with a total of 130 accepted as full papers and 19 as short communication and poster papers after review. As expected, a significant number of papers were related to the COVID-19 pandemic. Providing a state-of-the-art overview of biomedical and health informatics, the book will be of interest to all those working in the field of healthcare, researchers and practitioners alike
Open Semantic Technologies for Intelligent System Springer
The Semantic Web aims at enriching the existing Web with meta-data and processing methods so as to provide web-based systems with advanced capabilities, in particular with context awareness and decision support. The objective of this book is to provide a coherent introduction to semantic web methods and research issues with a particular emphasis on reasoning. The 7th reasoning web Summer School, held in August 2011, focused on the central topic of applications of reasoning for the emerging “Web of Data”. The 12 chapters in the present book provide excellent educational material as well as a number of references for further reading. The book not only addresses students working in the area, but also those seeking an entry point to various topics related to reasoning over Web data.

Distributed Computing and Internet Technology

Springer Nature
This volume contains the lecture notes of the 9th Reasoning Web Summer School 2013, held in Mannheim, Germany, in July/August 2013. The 2013 summer school program covered diverse aspects of Web reasoning, ranging from scalable lightweight formalisms such as RDF to more expressive ontology languages based on description logics. It also featured foundational reasoning techniques used in answer set programming and ontology-based data access as well as emerging topics like geo-spatial information handling and reasoning-driven information extraction and integration.

Emerging Technologies for Semantic Work Environments: Techniques, Methods, and Applications

Springer Nature
The author looks at the construction of the Semantic Web, which enables computers to automatically and independently consume Web-based information.
The Semantic Web -- ISWC 2012 CRC Press
After years of mostly theoretical research, Semantic Web Technologies are now reaching out into application areas like bioinformatics, eCommerce, eGovernment, or Social Webs. Applications like genomic ontologies, semantic web services, automated catalogue alignment, ontology matching, or blogs and social networks are constantly increasing, often driven or at least backed up by companies like Google, Amazon, YouTube, Facebook, LinkedIn and others. The need to leverage the potential of combining information in a meaningful way in order to be able to benefit from the Web will create further demand for and interest in Semantic Web research. This movement, based on the growing maturity of related research results, necessitates a reliable reference source from which beginners to the field can draw a first basic knowledge of the main underlying technologies as well as state-of-the-art application areas. This handbook, put together by three leading authorities in the field, and supported by an advisory board of highly reputed researchers, fulfils exactly this need. It is the first dedicated reference work in this field, collecting contributions about both the technical foundations of the Semantic Web as well as their main usage in other scientific fields like life sciences, engineering, business, or education.
It's Not Just Semantics Springer
This volume contains the lecture notes of the 8th Reasoning Web Summer School 2012, held in Vienna, Austria, in September 2012, in the form of worked out tutorial papers on the various topics that have been covered in that school. The 2012 summer school program had been put together under the general leitmotif of advanced query answering topics for the Web. The idea was to address on the one hand foundations and computational aspects of query answering, in formalisms, methods and technology, and on the other hand to also spotlight some rising or emerging application fields relating to the Semantic Web in which query answering plays a role, and which by their nature also pose new challenges and problems for this task; linked stream processing, geospatial data, semantic wikis, and argumentation on the web fall in this category.

Metaplasticity in Virtual Worlds: Aesthetics and Semantic Concepts

Springer Science & Business Media
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 Technology Springer Nature
A selection of 50 papers presented at CAA2016. Papers are grouped under the following headings: Ontologies and Standards; Field and Laboratory Data Recording and Analysis; Archaeological Information Systems; GIS and Spatial Analysis; 3D and Visualisation; Complex Systems Simulation; Teaching Archaeology in the Digital Age.

Reasoning Web. Semantic Technologies for Software Engineering

Springer
Implement state-of-the-art semantic search engine optimization techniques to meet your client's communication, and ROI goals. Armed with a sound understanding of the semantic technologies and practical case studies that demonstrate implementations you are ready to introduce your clients to this major shift in search technology, keeping them within the information loop that will continue to attract their audience to their sites. * Detailed real-world examples of companies or organizations who have implemented these techniques and reaped the benefits. * GUI screen grabs, color images and code snippets illustrate specific implementations that can be re-purposed. * Companion Web site that is regularly updated with relevant content, copy/paste code, live links, RSS feeds and more.
Foundations of Semantic Web Technologies Springer Nature
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.

E-Justice: Using Information Communication Technologies in the Court System

Springer Nature
"This book presents the most relevant experiences and best practices concerning the use and impact of ICTs in the courtroom"--Provided by publisher.
Semantic Media Springer
The two-volume set LNCS 7649 + 7650 constitutes the refereed proceedings of the 11th International Semantic Web Conference, ISWC 2012, held in Boston, MA, USA, in November 2012. The International Semantic Web Conference is the premier forum for Semantic Web research, where cutting edge scientific results and technological innovations are presented, where problems and solutions are discussed, and where the future of this vision is being developed. It brings together specialists in fields such as artificial intelligence, databases, social networks, distributed computing, Web engineering, information systems, human-computer interaction, natural language processing, and the social sciences. Volume 1 contains a total of 41 papers which were presented in the research track. They were carefully reviewed and selected from 186 submissions. Volume 2 contains 17 papers from the in-use track which were accepted from 77 submissions. In addition, it presents 8 contributions to the evaluations and experiments track and 7 long papers and 8 short papers of the doctoral consortium.