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Semantic Web Information Management

A Model-Based Perspective



Springer

Semantic Web Information Management A Model Based Perspective

**Roberto de Virgilio, Fausto
Giunchiglia, Letizia Tanca**



Semantic Web Information Management A Model Based Perspective:

Semantic Web Information Management Roberto de Virgilio, Fausto Giunchiglia, Letizia Tanca, 2010-01-08 Databases have been designed to store large volumes of data and to provide efficient query interfaces Semantic Web formats are geared towards capturing domain knowledge interlinking annotations and offering a high level machine processable view of information However the gigantic amount of such useful information makes efficient management of it increasingly difficult undermining the possibility of transforming it into useful knowledge The research presented by De Virgilio Giunchiglia and Tanca tries to bridge the two worlds in order to leverage the efficiency and scalability of database oriented technologies to support an ontological high level view of data and metadata The contributions present and analyze techniques for semantic information management by taking advantage of the synergies between the logical basis of the Semantic Web and the logical foundations of data management The book s leitmotif is to propose models and methods especially tailored to represent and manage data that is appropriately structured for easier machine processing on the Web After two introductory chapters on data management and the Semantic Web in general the remaining contributions are grouped into five parts on Semantic Web Data Storage Reasoning in the Semantic Web Semantic Web Data Querying Semantic Web Applications and Engineering Semantic Web Systems The handbook like presentation makes this volume an important reference on current work and a source of inspiration for future development targeting academic and industrial researchers as well as graduate students in Semantic Web technologies or database design

Semantic Web Information Management Roberto de Virgilio, Fausto Giunchiglia, Letizia Tanca, 2010-05-03 Databases have been designed to store large volumes of data and to provide efficient query interfaces Semantic Web formats are geared towards capturing domain knowledge interlinking annotations and offering a high level machine processable view of information However the gigantic amount of such useful information makes efficient management of it increasingly difficult undermining the possibility of transforming it into useful knowledge The research presented by De Virgilio Giunchiglia and Tanca tries to bridge the two worlds in order to leverage the efficiency and scalability of database oriented technologies to support an ontological high level view of data and metadata The contributions present and analyze techniques for semantic information management by taking advantage of the synergies between the logical basis of the Semantic Web and the logical foundations of data management The book s leitmotif is to propose models and methods especially tailored to represent and manage data that is appropriately structured for easier machine processing on the Web After two introductory chapters on data management and the Semantic Web in general the remaining contributions are grouped into five parts on Semantic Web Data Storage Reasoning in the Semantic Web Semantic Web Data Querying Semantic Web Applications and Engineering Semantic Web Systems The handbook like presentation makes this volume an important reference on current work and a source of inspiration for future development targeting academic and industrial researchers as well as graduate students in Semantic Web technologies or database design

The Semantic Web

- ISWC 2016 Paul Groth,Elena Simperl,Alasdair Gray,Marta Sabou,Markus Krötzsch,Freddy Lecue,Fabian Flöck,Yolanda Gil,2016-10-05 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

Reasoning Web. Learning, Uncertainty, Streaming, and Scalability Claudia d'Amato,Martin Theobald,2018-09-14 This volume contains lecture notes of the 14th Reasoning Web Summer School RW 2018 held in Esch sur Alzette Luxembourg in September 2018 The research areas of Semantic Web Linked Data and Knowledge Graphs have recently received a lot of attention in academia and industry Since its inception in 2001 the Semantic Web has aimed at enriching the existing Web with meta data and processing methods so as to provide Web based systems with intelligent capabilities such as context awareness and decision support The Semantic Web vision has been driving many community efforts which have invested a lot of resources in developing vocabularies and ontologies for annotating their resources semantically Besides ontologies rules have long been a central part of the Semantic Web framework and are available as one of its fundamental representation tools with logic serving as a unifying foundation Linked Data is a related research area which studies how one can makeRDF data available on the Web and interconnect it with other data with the aim of increasing its value for everybody Knowledge Graphs have been shown useful not only for Web search as demonstrated by Google Bing etc but also in many application domains

Managing and Consuming Completeness Information for RDF Data Sources F. Darari,2019-11-12 The increasing amount of structured data available on the Web is laying the foundations for a global scale knowledge base But the ever increasing amount of Semantic Web data gives rise to the question how complete is that data Though data on the Semantic Web is generally incomplete some may indeed be complete In this book the author deals with how to manage and consume

completeness information about Semantic Web data In particular the book explores how completeness information can guarantee the completeness of query answering Optimization techniques for completeness reasoning and the conducting of experimental evaluations are provided to show the feasibility of the approaches as well as a technique for checking the soundness of queries with negation via reduction to query completeness checking Other topics covered include completeness information with timestamps and two demonstrators CORNER and COOL WD are provided to show how a completeness framework can be realized Finally the book investigates an automated method to generate completeness statements from text on the Web The book will be of interest to anyone whose work involves dealing with Web data completeness

XML Data Mining: Models, Methods, and Applications Tagarelli, Andrea, 2011-11-30 The widespread use of XML in business and scientific databases has prompted the development of methodologies techniques and systems for effectively managing and analyzing XML data This has increasingly attracted the attention of different research communities including database information retrieval pattern recognition and machine learning from which several proposals have been offered to address problems in XML data management and knowledge discovery XML Data Mining Models Methods and Applications aims to collect knowledge from experts of database information retrieval machine learning and knowledge management communities in developing models methods and systems for XML data mining This book addresses key issues and challenges in XML data mining offering insights into the various existing solutions and best practices for modeling processing analyzing XML data and for evaluating performance of XML data mining algorithms and systems

E-Librarian Service Serge Linckels, Christoph Meinel, 2011-04-06 This book introduces a new approach to designing E Librarian Services With the help of this system users will be able to retrieve multimedia resources from digital libraries more efficiently than they would by browsing through an index or by using a simple keyword search E Librarian Services combine recent advances in multimedia information retrieval with aspects of human machine interfaces such as the ability to ask questions in natural language they simulate a human librarian by finding and delivering the most relevant documents that offer users potential answers to their queries The premise is that more pertinent results can be retrieved if the search engine understands the meaning of the query the returned results are therefore logical consequences of an inference rather than of keyword matches Moreover E Librarian Services always provide users with a solution even in situations where they are unable to offer a comprehensive answer

Electronic Government and the Information Systems Perspective Andrea Kó, Enrico Francesconi, 2015-08-10 This book constitutes the refereed proceedings of the 4th International Conference on Electronic Government and the Information Systems Perspective EGOVIS 2015 held in Valencia Spain in September 2015 in conjunction with DEXA 2015 The 26 revised full papers presented together with one invited talk were carefully reviewed and selected from 30 submissions The papers are organized in the following topical sections semantic technologies in e government identity management in e government e government cases open innovation and G cloud intelligent systems in e government

open government e government solutions and approaches *Conceptual Modeling* Wolfgang Maass, Hyoil Han, Hasan Yasar, Nick Multari, 2024-10-26 This book constitutes the proceedings of the 43rd International Conference on Conceptual Modeling ER 2024 which took place in Pittsburgh PA USA during October 28 31 2024 The 22 full papers presented in this volume were carefully reviewed and selected from 113 submissions They are grouped into the following topics process modeling advanced modeling languages ontological modeling domain and goal modeling language models and conceptual modeling applications of conceptual modeling Web Reasoning and Rule Systems Axel Polleres, Terrance Swift, 2009-10-14 The promise of the Semantic Web at its most expansive is to allow knowledge to be freely accessed and exchanged by software It is now recognized that if the Semantic Web is to contain deep knowledge then the need for new representation and reasoning techniques is going to be critical These techniques need to find the right trade off between expressiveness scalability and robustness to deal with the inherently incomplete contradictory and uncertain nature of knowledge on the Web The International Conference on Web Reasoning and Rule Systems RR was founded to address these needs and has grown into a major international forum in this area The third RR conference was held during October 25 26 2009 in Chantilly Virginia co located with the International Semantic Web Conference ISWC 2009 This year 41 papers were submitted from authors in 21 countries The Program Committee performed outstandingly to ensure that each paper submitted to RR 2009 was thoroughly reviewed by at least three referees in a short period of time The resulting conference presented papers of high quality on many of the key issues for reasoning on the Semantic Web RR 2009 was fortunate to have two distinguished invited speakers Robert Kowalski in his talk integrating Logic Programming and Production Systems with Abductive Logic Programming Agents addressed some of the fundamental considerations hind reasoning about evolving systems Benjamin Grosz's talk SILK Higher Level Rules with Defaults and Semantic Scalability described the design of a major next generation rule system The invited tutorial Uncertainty Reasoning for the Semantic Web by Thomas Lukasiewicz provided perspectives on a central issue in this area Artificial Intelligence in Medicine Mor Peleg, Nada Lavrač, Carlo Combi, 2011-09-15 This book constitutes the refereed proceedings of the 13th Conference on Artificial Intelligence in Medicine AIME 2011 held in Bled Slovenia in July 2011 The 42 revised full and short papers presented together with 2 invited talks were carefully reviewed and selected from 113 submissions The papers are organized in topical sections on knowledge based systems data mining special session on AI applications probabilistic modeling and reasoning terminologies and ontologies temporal reasoning and temporal data mining therapy planning scheduling and guideline based care and natural language processing New Knowledge in Information Systems and Technologies Álvaro Rocha, Hojjat Adeli, Luís Paulo Reis, Sandra Costanzo, 2019-03-29 This book includes a selection of articles from The 2019 World Conference on Information Systems and Technologies WorldCIST 19 held from April 16 to 19 at La Toja Spain WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional

experiences and challenges in modern information systems and technologies research together with their technological development and applications The book covers a number of topics including A Information and Knowledge Management B Organizational Models and Information Systems C Software and Systems Modeling D Software Systems Architectures Applications and Tools E Multimedia Systems and Applications F Computer Networks Mobility and Pervasive Systems G Intelligent and Decision Support Systems H Big Data Analytics and Applications I Human Computer Interaction J Ethics Computers K Health Informatics L Information Technologies in Education M Information Technologies in Radiocommunications and N Technologies for Biomedical Applications

HPI Future SOC Lab - Proceedings 2018

Kaushik Rana,Durga Prasad Mohapatra,Julia Sidorova,Lars Lundberg,Lars Sköld,Luís Fernando Lopes Grim,André Leon Sampaio Gradwohl,Jonas Cremerius,Simon Siegert,Anton von Weltzien,Annika Baldi,Finn Klessascheck,Svitlana Kalancha,Tom Lichtenstein,Nuhad Shaabani,Christoph Meinel,Tobias Friedrich,Pascal Lenzner,David Schumann,Ingmar Wiese,Nicole Sarna,Lena Wiese,Araek Sami Tashkandi,Estée van der Walt,Jan H. P. Eloff,Christopher Schmidt,Johannes Hügler,Siegfried Horschig,Matthias Uflacker,Pejman Najafi,Andrey Sapegin,Feng Cheng,Dragan Stojanovic,Aleksandra Stojnev Ilić,Igor Djordjevic,Natalija Stojanovic,Bratislav Predic,Mario González-Jiménez,Juan de Lara,Sven Mischkewitz,Bernhard Kainz,André van Hoorn,Vincenzo Ferme,Henning Schulz,Marlene Knigge,Sonja Hecht,Loina Prifti,Helmut Krcmar,Benjamin Fabian,Tatiana Ermakova,Stefan Kelkel,Annika Baumann,Laura Morgenstern,Max Plauth,Felix Eberhard,Felix Wolff,Andreas Polze,Tim Cech,Noel Danz,Nele Sina Noack,Lukas Pirl,Jossekin Jakob Beilharz,Roberto C. L. De Oliveira,Fábio Mendes Soares,Carlos Juiz,Belen Bermejo,Alexander Mühle,Andreas Grüner,Vageesh Saxena,Tatiana Gayvoronskaya,Christopher Weyand,Mirko Krause,Markus Frank,Sebastian Bischoff,Freya Behrens,Julius Rückin,Adrian Ziegler,Thomas Vogel,Chinh Tran,Irene Moser,Lars Grunske,Gábor Szárnyas,József Marton,János Magincz,Dániel Varró,János Benjamin Antal,2023-06-06 The HPI Future SOC Lab is a cooperation of the Hasso Plattner Institute HPI and industry partners Its mission is to enable and promote exchange and interaction between the research community and the industry partners The HPI Future SOC Lab provides researchers with free of charge access to a complete infrastructure of state of the art hard and software This infrastructure includes components which might be too expensive for an ordinary research environment such as servers with up to 64 cores and 2 TB main memory The offerings address researchers particularly from but not limited to the areas of computer science and business information systems Main areas of research include cloud computing parallelization and In Memory technologies This technical report presents results of research projects executed in 2018 Selected projects have presented their results on April 17th and November 14th 2017 at the Future SOC Lab Day events

Semantic Technologies in Idea Management Systems: A Model for Interoperability, Linking and Filtering , Idea Management Systems are web applications that implement the notion of open innovation through crowdsourcing Typically organizations use those kind of systems to connect to large communities in order

to gather ideas for improvement of products or services Originating from simple suggestion boxes Idea Management Systems advanced beyond collecting ideas and aspire to be a knowledge management solution capable to select best ideas via collaborative as well as expert assessment methods In practice however the contemporary systems still face a number of problems usually related to information overflow and recognizing questionable quality of submissions with reasonable time and effort allocation This thesis focuses on idea assessment problem area and contributes a number of solutions that allow to filter compare and evaluate ideas submitted into an Idea Management System With respect to Idea Management System interoperability the thesis proposes theoretical model of Idea Life Cycle and formalizes it as the Gi2MO ontology which enables to go beyond the boundaries of a single system to compare and assess innovation in an organization wide or market wide context Furthermore based on the ontology the thesis builds a number of solutions for improving idea assessment via community opinion analysis MARL annotation of idea characteristics Gi2MO Types and study of idea relationships Gi2MO Links The main achievements of the thesis are application of theoretical innovation models for practice of Idea Management to successfully recognize the differentiation between communities opinion metrics and their recognition as a new tool for idea assessment discovery of new relationship types between ideas and their impact on idea clustering Finally the thesis outcome is establishment of Gi2MO Project that serves as an incubator for Idea Management solutions and mature open source software alternatives for the widely available commercial suites From the academic point of view the project delivers resources to undertake experiments in the Idea Management Systems area and managed to become a forum that gathered a number of academic and industrial partners

Knowledge Graphs for eXplainable Artificial Intelligence:

Foundations, Applications and Challenges I. Tiddi, F. Lécué, P. Hitzler, 2020-05-06 The latest advances in Artificial Intelligence and deep Machine Learning in particular revealed a major drawback of modern intelligent systems namely the inability to explain their decisions in a way that humans can easily understand While eXplainable AI rapidly became an active area of research in response to this need for improved understandability and trustworthiness the field of Knowledge Representation and Reasoning KRR has on the other hand a long standing tradition in managing information in a symbolic human understandable form This book provides the first comprehensive collection of research contributions on the role of knowledge graphs for eXplainable AI KG4XAI and the papers included here present academic and industrial research focused on the theory methods and implementations of AI systems that use structured knowledge to generate reliable explanations Introductory material on knowledge graphs is included for those readers with only a minimal background in the field as well as specific chapters devoted to advanced methods applications and case studies that use knowledge graphs as a part of knowledge based explainable systems KBX systems The final chapters explore current challenges and future research directions in the area of knowledge graphs for eXplainable AI The book not only provides a scholarly state of the art overview of research in this subject area but also fosters the hybrid combination of symbolic and subsymbolic AI methods and will be

of interest to all those working in the field **Model-Based Development and Evolution of Information Systems** John Krogstie, 2012-05-17 This book introduces and describes in detail the SEQUAL framework for understanding the quality of models and modeling languages including the numerous specializations of the generic framework and the various ways in which this can be used for different applications Topics and features contains case studies chapter summaries review questions problems and exercises throughout the text in addition to Appendices on terminology and abbreviations presents a thorough introduction to the most important concepts in conceptual modeling including the underlying philosophical outlook on the quality of models describes the basic tasks and model types in information systems development and evolution and the main methodologies for mixing different phases of information system development provides an overview of the general mechanisms and perspectives used in conceptual modeling predicts future trends in technological development and discusses how the role of modeling can be envisaged in this landscape **Search Computing** Stefano Ceri, Marco Brambilla, 2011-03-14 Search computing which has evolved from service computing focuses on building the answers to complex search queries by interacting with a constellation of cooperating search services using the ranking and joining of results as the dominant factors for service composition The field is multi disciplinary in nature and takes advantage of contributions from other research areas such as knowledge representation human computer interfaces psychology sociology economics and legal sciences This book the second in the Search Computing series describes the evolution of theories technologies and methods related to search computing The book has been divided into eight parts reflecting the main research directions within the Search Computing project The parts focus on search as an information exploration task interaction design issues when dealing with multi domain search results modeling and semantic description of search services the rank join problem query processing techniques and architectures tools and mashups for application development the application of search computing to bio informatics and the exploitation potentials of project results *Databases and Information Systems VII* Albertas Caplinskas, Gintautas Dzemyda, Audrone Lupeikiene, Olegas Vasilecas, 2013 Conference held July 8 11 2012 in Vilnius Lithuania *Big Data Governance and Perspectives in Knowledge Management* Strydom, Sheryl Kruger, Strydom, Moses, 2018-11-16 The world is witnessing the growth of a global movement facilitated by technology and social media Fueled by information this movement contains enormous potential to create more accountable efficient responsive and effective governments and businesses as well as spurring economic growth Big Data Governance and Perspectives in Knowledge Management is a collection of innovative research on the methods and applications of applying robust processes around data and aligning organizations and skillsets around those processes Highlighting a range of topics including data analytics prediction analysis and software development this book is ideally designed for academicians researchers information science professionals software developers computer engineers graduate level computer science students policymakers and managers seeking current research on the convergence of big data and information governance

as two major trends in information management

Advancing Information Management through Semantic Web

Concepts and Ontologies Ordóñez de Pablos, Patricia, Nigro, Héctor Oscar, Tennyson, Robert D., Gonzalez Cisaro, Sandra Elizabeth, Karwowski, Waldemar, 2012-11-30 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

The Enigmatic Realm of **Semantic Web Information Management A Model Based Perspective**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Semantic Web Information Management A Model Based Perspective** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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