

Data Integration Using Semantic Technology A Use Case

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Data Integration Using Semantic Technology

Data Integration using Semantic Technology: A use case. Abstract: For the integration of data that resides in autonomous data sources Software AG uses ontologies. Data source ontologies describe the data sources themselves. Business ontologies provide an integrated view of the data.

Data Integration using Semantic Technology: A use case ...

The main tasks when performing semantic data integration are: creating an Application Profile (RDF Shape) that describes the desired form of the final dataset; reusing existing ontologies and engineering new ontologies as needed; leveraging fully the available Linked Open Datasets in the domain; ...

Semantic Data Integration - Integrating Heterogeneous ...

Clearly, this can be improved by semantic data integration [AG06], where instance data about concrete resources is fed into a domain ontology. The user can then obtain and process information via...

Data Integration using Semantic Technology: A use case

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): For the integration of data that resides in autonomous data sources Software AG uses ontologies. Data source ontologies describe the data sources themselves. Business ontologies provide an integrated view of the data.

CiteSeerX — Data integration using semantic technology: a ...

At the enterprise level, Semantic Web technologies can be adopted to develop inexpensive, scalable and incremental solutions for agile data integration and information classification [61] [62] [63...

(PDF) Integration of Big Data Using Semantic Web Technologies

An example of a response to these challenges is the prototype LEED (Linked Employer-Employee Dataset) the Australian Bureau of Statistics is currently producing using semantic technology. A LEED integrates administrative tax data and survey sources allowing detailed microeconomic analysis.

Big Data and Semantic Technology: A Future for Data ...

"Semantic Technology approaches provide a powerful basis for Machine Learning and AI. In supervised learning, 60 to 80 percent of the effort resides in cleaning up the input data and then labeling it as the basis to train the learners.

Semantic Web and Semantic Technology Trends in 2019 ...

Semantic integration is the process of interrelating information from diverse sources, for example calendars and to do lists, email archives, presence information, documents of all sorts, contacts, search results, and advertising and marketing relevance derived from them. In this regard, semantics focuses on the organization of and action upon information by acting as an intermediary between heterogeneous data sources, which may conflict not only by structure but also context or value.

Semantic integration - Wikipedia

semantic data integration, and; taxonomies/classification. Given a question, semantic technologies can directly search topics, concepts, associations that span a vast number of sources. Semantic technologies provide an abstraction layer above existing IT technologies that enables bridging and interconnection of data, content, and processes.

Semantic technology - Wikipedia

Semantic Technology defines and links data on the Web (or within an enterprise) by developing languages to express rich, self-describing interrelations of data in a form that machines can process. Thus, machines are not only able to process long strings of characters and index tons of data.

What is Semantic Technology?

RDF and SPARQL: Using Semantic Web Technology to Integrate the World's Data Status of this Document This document is an early draft of a submission to the VLDB conference. This is not endorsed by the W3C or its membership.

RDF and SPARQL: Using Semantic Web Technology to Integrate ...

Precursors to the semantic technology such as data exchange formats have maintained the distinction between data and the data describing the data (schema or metadata). Minimizing that distinction in data representation enables semantic technologies to move one step closer to data sharing and integration.

Semantic Data Integration for the Enterprise - Oracle ...

The Next Generation of Data Integration Enabled by Semantic Technologies. White paper. ... PoolParty is a semantic technology platform developed, owned and licensed by the Semantic Web Company. The company is based in the EU and is involved in international R&D projects, which continuously impact product development. ...

The Next Generation of Data Integration using Semantic ...

Semantic Data Integration on Biomedical Data using Semantic Web Technologies 3 Disadvantages: It is necessary to build and maintain the warehouse and there is a danger of antiquated data. Therefore the warehouse system must regularly check the underlying sources for new or updated data and modify the local copy of the data if

Semantic Data Integration on Biomedical Data Using ...

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With help of Semantic WEB technology, product data models and other relevant information are increasingly linked to BIM models. The article discusses the challenges of existing BIM standards to meet future requirements, to fully utilize semantic technology.

CRITICAL REVIEW OF THE INTEGRATION OF BIM TO SEMANTIC WEB ...

We have constructed an ortholog database using the Semantic Web technology, aiming at the integration of numerous genomic data and various types of biological information. To formalize the structure of the ortholog information in the Semantic Web, we have constructed the Ortholog Ontology (OrthO).

Construction of an Ortholog Database Using the Semantic ...

The user interface of the semantic data-integration prototype features dynamically updated widgets, which enable the user to interact with the system in an interactive dialog mode..... 14 7.

A Case Study of Data Integration for Aquatic Resources ...

The standards-based data formats and technologies prevent vendor lock-in. This means that your data integration activities are future-proof. The semantic data integration approach substantially increases your data quality and expressiveness. The graph-based data model supports you with your data integration efforts in a most agile way.

PoolParty Semantic Suite - Data Integration

The solution combines ETL technology and wrapper layer known from mediated systems. It also provides semantic integration through connections mechanism between data elements. The solution allows for integration of any data sources and implementation of analytical methods in one environment.

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