

Ontologies And Semantic Technologies For Intelligence Volume 213 Frontiers In Artificial Intelligence And Applications

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[Ontologies And Semantic Technologies For](#)

Introduction to Semantic Technology, Ontologies and the ...

Module 13 Outline 1030-1230 • Introduction to the Semantic Web • Ontologies • Semantic Web related standards 1230-1400 Lunch break 1400-1600
• Semantic Web related standards (part II) • Some Application of Semantic Technologies • Tools

Ontologies and the Semantic Web

• Semantic Web aims to make web content more accessible to automated processes - Adds semantic annotations to web resources • Ontologies provide vocabulary for annotations - Terms have well defined meaning • OWL ontology language based on (description) logic - Exploits results of basic research on complexity, reasoning, etc

Application of ontologies and semantic web technologies in ...

using ontologies and semantic web technologies In this paper we intend to emphasize that the use of ontologies and semantic web technologies like RDF, OWL and SPARQL can provide the necessary semantics for a variety of medical domains and, moreover, can serve as tools for building innovative solutions technology to existing

Personalized Learning Using Ontologies and Semantic Web ...

Semantic web technologies can support a new era of assessment by providing multiple layers and components for evaluation Matching of knowledge gaps to personal learning programmes The semantic mapping of knowledge gaps is a high intellectual process The relevant semantic web technologies including, ontologies visualisation, ontologies mapping

Ontologies and Semantic Technologies

Ontologies and semantic reasoning Budapesti Műszaki és Gazdaságtudományi Egyetem Méréstechnika és Információs Rendszerek Tanszék
Ontologies and Semantic Technologies IzsóBenedek Bergmann Gábor

Introduction to Semantic Technology, Ontologies and the ...

One can think of “Semantic Technologies” like as AI, made less abstract and more robust, predictable and manageable: Semantic Technologies vs AI “Semantic technologies” (ST) Introduction to Semantic Technology, Ontologies and the Semantic Web Author: Marin Dimitrov Keywords: semantic web, rdf, owl, sparql

Semantic Technologies for Intelligence, Defense, and ...

- The initial segment of this course introduces Ontologies and Semantic Technologies It first describes the difference between Syntax and Semantics, and then looks at various definitions of Ontology, and describes the Ontology Spectrum and the range of Semantic Models
- The second segment focuses on Logic, the foundation of ontologies and

Ontologies and the Semantic Web: Problems and Perspectives ...

Ontologies and the Semantic Web: Problems and Perspectives for LIS professionals // Ibersid, 12 (2007) p1-pn indexing languages Ontologies are also formal vocabularies And though ontologies can be used for retrieval, they are not used solely for indexing with the ultimate purpose of retrieval Ontologies, as specifications of conceptualiza-

Ontology Learning for the Semantic Web

The Semantic Web Ontology Learning for the Semantic Web Alexander Maedche and Steffen Staab, University of Karlsruhe The Semantic Web relies heavily on formal ontologies to structure data for com-prehensive and transportable machine understanding Thus, the proliferation of ontologies factors largely in the Semantic Web’s success

Foundational Ontologies for Smarter Industries

advantages of semantic technologies Key definition: Ontologies are knowledge representation mechanisms that are explicit formal specifications of the terms in a domain and relationships among them Ontologies are best suited for representing the information models that are needed to enable smarter solutions

Applying Ontologies And Semantic Web Technologies To ...

Use of Semantic Web technologies and Ontologies • Common framework to allow data sharing and reuse • Machine understandable semantics • Shared domain models Development of domain ontologies • Describe domain knowledge • Provide semantic metadata for datasets and domain models • Efficient mechanisms for data discovery, data

Semantics and Ontologies in EarthCube

Abstract Semantic technologies and ontologies play an increasing role in sci-entific workflow systems and knowledge infrastructures While ontologies are mostly used for the semantic annotation of metadata, semantic technologies en-able searching metadata catalogs beyond simple keywords, with some early ev-

APPLYING SEMANTIC WEB TECHNOLOGIES TO DISCOVER AN ...

The current phase in IDSs evolution relies on the Semantic Web technologies, the principals are ontologies Security systems built using an ontological approach are a promising new line of defense that can detect zero-day and sophisticated attacks because of the ability to capture the context of information and filter them by specific

APPLYING ONTOLOGY AND SEMANTIC WEB TECHNOLOGIES ...

Need to Add "Semantics" • Semantic annotation with respect to a domain ontology • Ontology is the philosophical study of the nature of being, existence or reality in general, as well as the basic categories of being and their relations • In computer science and information science, an ontology is a formal representation of the knowledge:

REAL WORLD APPLICATIONS OF SEMANTIC WEB ...

Semantic Web can facilitate the integration and interoperability of intra- and inter-business processes and systems, as well as enable the creation of global infrastructures for sharing documents and data, make searching and reusing information easier Figure 3-1 illustrates the various tasks for which semantic technologies can be used

SoKNOS { Using Semantic Technologies in Disaster ...

basis across organizations In this sense, semantic technologies were used in a holistic and pervasive manner thought the system, making SoKNOS a good ex-ample for the successful application of semantic technologies Fig 2 shows an overview of the ontologies developed and used in the SoKNOS project

Comparing SNOMED CT and the NCI Thesaurus through ...

ontologies are represented in the Unified Medical Language System (UMLS), which asserts the equivalence between concepts across biomedical ontologies Finally, we exploit Semantic Web technologies, such as the Resource Description Framework (RDF) to carry out the comparison between these two ontologies

BLONDiE: Blockchain Ontology with Dynamic Extensibility

In computer science, ontologies are used as tools to represent, name, and define categories, properties and relationships between concepts, data and entities of one or more domains [1] These ontologies are part of the stack of semantic web technologies proposed by Tim Berners-Lee as seen in Figure 1 The semantic web, originally intended

Semantic Technologies for Systems Engineering

and utilization of ontologies and semantic technologies to support system engineering practice, education, and research 1 Provide a semantically rich language to communicate among systems engineers and other stakeholders 2 Define patterns that can be used to check for consistency and