

# 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 Semantic Technologies For Intelligence ...**

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#### **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

**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

**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 comprehensive 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

**A Holistic Digital Twin Based on Semantic Web Technologies ...**

2 The Semantic Web In order to overcome current hurdles described above, we propose the application of Semantic Web technologies Semantic Web provides a powerful toolset to define and maintain a controlled vocabulary of processes, roles, objects and interactions The Semantic Web expands on the current World Wide Web (WWW) framework Linked

**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-

**Designing Ontologies and Distributed Resource Discovery ...**

distributed systems using Semantic Web technologies The Semantic Web adopts the Open Hypermedia [6] model In this model, resource information, that points users to resources, is indicated in separate documents This information is the semantic metadata We consider the SERVOGrid

environment as an open hypermedia peer-to-peer system

### **Soft Computing In Ontologies And Semantic Web Studies In ...**

Soft Computing in Ontologies and Semantic Web (Studies in This book covers in a great depth the fast growing topic of tools, techniques and applications of soft computing (eg, fuzzy logic, genetic algorithms, neural networks, rough sets, Bayesian networks, and other probabilistic techniques) in the ontologies and Semantic Web Soft

### **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

### **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 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:

### **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

### **Semantic Web: Concepts, Technologies and Applications ...**

introduction to the Semantic Web It covers a wide range of topics, from new trends (ontologies, rules) to existing technologies (Web Services and software agents) to more formal aspects (logic and inference) It includes: real-world (and complete) examples of the application of Semantic ...

### **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