

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

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### [Ontologies And Semantic Technologies For](#)

#### Ontologies and Semantic Technologies

Ontologies and semantic reasoning Ontologies and Semantic Technologies IzsóBenedek Bergmann Gábor Ontologies and semantic reasoning Agenda Ontologies oResource Description Framework (RDF) oQuerying ontologies (SPARQL) oWeb Ontology Language (OWL) ...

#### 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

#### 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

### **Applying Ontologies And Semantic Web Technologies To ...**

Applying Ontologies And Semantic Web Technologies To Environmental Sciences And Engineering Master's Thesis Defense Candidate: Viral Parekh Advisors Dr Jin ...

### **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 ...

### **Application of semantic technologies and ontologies to ...**

Ontologies and real-time integration technologies will affect the KPIs of the oil industry significantly - Standardize, integrate and automate processes - Solve scalability issues - Facilitate fast and efficient rollout of new real-time processes and solutions across assets IBM will continue development of the RSM and the IIF solution in

### **Ontologies and the Semantic Web**

Ontologies and the Semantic Web Ian Horrocks Oxford University Computing Laboratory Oxford, UK IanHorrocks@comlab.ox.ac.uk ABSTRACT The goal of semantic web research is to allow the vast range of web-accessible information and services to be more effectively exploited by both humans and automated tools To

### **Role of Ontology in Semantic Web**

The vision of semantic Web proposes an environment where the data and services on the Web can be semantically interpreted and processed by machines to facilitate human consumption The semantic Web relies heavily on the formal ontologies that structure underlying data for the purpose of comprehensive and transportable machine understanding

### **OntoEdit: Collaborative Ontology Development for the ...**

OntoEdit: Collaborative Ontology Development for the Semantic Web 223 Fig1 The semantic portal at the institute AIFB SEAL is a framework for managing community web sites and web portals based on ontologies The ontology supports queries to multiple sources, but beyond that it

### **Geospatial Ontology Development and Semantic Analytics**

Geospatial ontology development and semantic knowledge discovery addresses the GSA provides a framework for developing novel semantic technologies that exploit semantic approaches are the development of ontologies and semantic annotation of data Ontologies [Gruber 1993, Guarino 1998], specifically domain-specific ontologies, are at the

### **Formal Ontologies and Semantic Technologies: A "Dual ...**

Formal Ontologies and Semantic Technologies 141 reasons to believe that in human subjects, tasks usually accounted for by KR are type 2 tasks (they are difficult, slow, sequential tasks)

### **ONTOLOGIES FOR THE SEMANTIC WEB - unifr.ch**

University of Fribourg Informatics Department Bachelor in Management of Information ONTOLOGIES FOR THE SEMANTIC WEB Bachelor Thesis Michael Dejen Av De Chailly 34 1012 Lausanne

## **Role of Ontologies in Semantic Digital Libraries**

Role of Ontologies in Semantic Digital Libraries Sebastian Ryszard Kruk, Semantic Web Technologies for Digital Libraries? Metadata is the key concept • the Web does not have metadata - the idea of a Semantic Web is nice but difficult to implement

## **Oracle Database Semantic Technologies**

Oracle Database Semantic Technologies: Understanding How to Install, Load, Query and Inference June 2011 Bill Beauregard, Senior Principal Product Mgr

## **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 UML to Model Web Service Ontologies for the ...**

Semantic Web vision - August 2000 to 2005 • Extend XML and Resource Description Framework(RDF) • represent ontologies and rules • annotate/markup web pages and other information with links to ontologies • apply expertise in AI knowledge representation, logic and web technologies • cooperation with European Union IST Program

## **Reuse of Use Cases Diagrams: An Approach based on ...**

ontologies are used to store and retrieve software artifacts, but it is not geared to specific reuse of use cases diagrams 3 Reuse of Use Cases Diagrams: An Approach based on Ontologies and Semantic Web Technologies As part of our research on the topic of software reuse, we developed a tool that allows reuse of use cases diagrams in UML

## **Standards-based Semantic Technologies for Smart Regulation**

business ontologies, such as, for example, the Financial Industry Business Ontology However, in order to ensure that this becomes a reality, the nascent RegTech sector will need to have a standards-based approach to capturing regulatory & business vocabularies and rules Semantic standards and technologies thus developed can enable

## **Ontologies and the Semantic Web for E-learning**

Web It is anticipated that Ontologies and Semantic Web technologies will influence the next generation of e-learning systems and applications To this end, key developments such as  $\frac{3}{4}$  formal taxonomies expressed, eg, with the help of the web ontology languages RDFS and OWL, and