Abstract

The Semantic Web Technologies growing interest in human computer interactions where it enables the machines to interpret the data published in a machine interpretable form under web. Currently, E-Commerce is seriously vulnerable due to the lack of proper standards where HTML does not provide the syntax and semantics of information. Semantic Web has the
potential to extremely influence the further development of the internet market, where e-commerce plays an important role. This paper discusses the semantic architecture for e-commerce using ontology language like RDF. This gives the overview about how the producer describes their resource in ontology content and how the consumer will retrieve the efficient data.

Reference

- Oscar Martinez, Federico Botella, “Building E-Commerce Web Applications: Agent- and Ontology-based Interface Adaptivity”, Operations Research Center, University Miguel Hernández of Elche, Avda.Universidad, s/n, 03202 Elche, Spain
- Donglin Chen Xiaofei Li Jun Zhang, “User-oriented intelligent service of e-catalog based on semantic web “, Information Management and Engineering (ICIME), 2010 The 2nd IEEE International Conference.
- Rasheed M. Al-Zahrani, “The Ontology problem in ecommerce applications”, Information SystemsDept., KSU.
- SPARQL Query language for RDF http://www.w3.org/TR/rdf-sparql-query/
- Resource Description Framework (RDF Semantic web standards www.w3.org/RDF/
- Peter mika “Social networks and the semantic web”.
- Tim Berners-Lee “Semantic Web on XML” slides: http://www.w3.org/2000/Talks/1206-xml2k-tbl
- Grigoris Antoniou and Frank van Harmelen “Semantic web Primer”.
- Jena RDF API http://jena.sourceforge.net/tutorial/RDF_API/index.html
- John Davies, Rudi Studer, Paul Warren “Semantic web Technologies- trends and research in ontology based systems”.
- Tim Berners-Lee: Why RDF model is different from the XML model. Design Issues draft, October 1998
- The Protégé Ontology Editor and Knowledge Acquisition System protege.stanford.edu/
- Altova editor at: www.altova.com

Index Terms

Computer Science Information Systems
### Key words

<table>
<thead>
<tr>
<th>E-Commerce</th>
<th>RDF</th>
<th>Semantic Web</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ontology</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>