**Paper Review Form**

**Reviewer Name:** Charulakshmi Vijayagopal

**Paper Name:** The Semantic Web

**Section I. Overview**

**A. Reader Interest**

 1. Which category describes this manuscript?

 \_\_\_Practice/Application/Case Study/Experience Report

 \_x\_Research/Technology

 \_\_\_Survey/Tutorial/How-To

**B. Content**

 1. Please explain how this manuscript advances this field of research and/or contributes something new to the literature.

 The www extends to become a semantic web. Even with little Artificial Intelligence, the web can understand and process data to give meaningful/useful output. The www steps up from using XML, then RDFs (and URIs) and then Ontologies which integrates and identifies relationships and similarities between entities of various web sources, thus being able to link anything on the web together. Authenticity of information can be verified using digital signatures.

**C. Presentation**

1.       Does the introduction state the objectives of the manuscript in terms that encourage the reader to read on?

 \_x\_Yes

 \_\_\_Could be improved

 \_\_\_No

 2. How would you rate the organization of the manuscript? Is it focused? Is the length appropriate for the topic?

 \_x\_Satisfactory

 \_\_\_Could be improved

 \_\_\_Poor

 3. Please rate and comment on the readability of this manuscript.

 \_x\_Easy to read

 \_\_\_Readable - but requires some effort to understand

 \_\_\_Difficult to read and understand

 \_\_\_Unreadable

**Section II. Evaluation**

 Please rate the manuscript. Explain your choice.

 \_x\_Award Quality

 \_\_\_Excellent

 \_\_\_Good

 \_\_\_Fair

 \_\_\_Poor

**Section III. Detailed Comments** (provide your thoughts/criticism about the ideas in the paper; not only summarize the paper but have a critical look here)

 The paper tells how www become semantic web and the XML makes the web content be more understandable to the computer. The concept of RDFs and URIs reduce ambiguity and the usage of Ontologies further reduce the pitfalls in using RDFs. The author suggests that equivalence relationships between Ontologies can resolve the ambiguity between terms. But the work involved looks humungous. Can there be a centralized consortium that manages ontologies?

Ex: FDA can manage food related ontologies and ICC can manage ontology related to cricket. And one level above someone centralizes and standardizes these ontologies.

Additional Comments:

1. Provide one aspect that you liked the most in this paper.

This paper brings all the information available on the web together. The semantic web eases life by being more intelligent (less AI means less programming). Processing and information retrieval becomes faster and more accurate with no layer of data being meaningless and just “plain” text. Automation becomes faster and easier with

1. Provide one aspect that you disliked the most in this paper.

I did not dislike anything but one thought is “what about the pages and websites already built?” I might be wrong in thinking that it is not easy to rebuild everything using RDFs and URIs and Ontologies.

**Section IV. Discussion Points** (provide at least 3 discussion topics/questions related to ideas/techniques described in the paper; these will be used for discussions in the class)

1. How is equivalence relationships between several terms from various ontologies established? Is there some kind of “Dictionary” that manages terms from ontologies in the easy way?
2. What are the agents that automatically find out the web services? Do these agents search the internet?
3. Microwave ovens and intelligent fridges are already in the market but are they not using more of AI than semantic web as opposed to the suggestion in the paper which says more semantic web than AI?
4. If the formats and standards change, will compatibility to the older web sites and services and devices (like intelligent fridge and ovens) still remain? If yes, is it easy?