Abstract

In this paper, we give an overview of relationship between the two potential areas of research, Semantic Web and Ontologies. In our survey, we will first describe the state-of-the-art of both the areas and then discuss their relationship. The Semantic Web has taken today’s World Wide Web one step ahead with the integration of semantics into the underlying domain knowledge. The Semantic Web relies on one or more ontologies for describing this semantic knowledge of the domain of interest. An ontology is a formal explicit description of i) concepts in a domain of discourse i.e. classes, ii) properties of each concept describing various features and attributes of the concept i.e. slots or roles and iii) restrictions on slots i.e. facets or role restrictions. Ontology together with a set of individual instances of classes constitutes a Knowledge Base. Recent research works are trying to improve the existing approaches of Web log mining by integrating the semantics into the underlying domain knowledge using Ontologies.
References

- J. Hoxha, M. Junghans, and S. Agarwal, "Enabling semantic analysis of user

Index Terms

Computer Science  
Web Technology

Keywords
Semantic Web  Ontologies  WWW  Knowledge Base  Semantic Annotation  Web Log Mining.