

Position Statement

I am a Master's Degree student in Computer Science at the University of Trento, Italy with specialization in Semantic Web, Linked Data and Data Science. I have started working on the Semantic Web during my Bachelor's degree, I worked on the topic MOD: Metadata for Ontology Description and Publication, which is accepted at DCMI -2015 conference. I also worked on the project Linked Data creation in the area of education where the main objective is to create a linked data repository using SPARQL query to answer complex query the policy making. My LinkedIn profile is at <https://www.linkedin.com/in/dnandini/>

The semantic enhancements consist in annotations as OWL axioms which commit to an upper-level ontology that provides categories, relations, and constraints for both domain entities and informational entities. So we can increase the interoperability using the concept of upper-ontology. The concept is implemented in one of my project A Semantics Aware Transportation System: Design and development of Semantic web based transportation system.

My work titled MOD: Metadata for Ontology Description and publication is published at DCMI-2015 available at link-
<http://dcevents.dublincore.org/IntConf/dc-2015/schedConf/presentations>

Abstract of the talk-

Ontology is an important artifact of Semantic Web applications. Today, there are an enormous number of ontologies available on the Web. Even so, finding and identifying the right ontology is not easy. This is because the majority of ontologies are either not described or described with a general-purpose metadata vocabulary like Dublin Core. On the other hand, ontology construction, irrespective of its types (e.g., general ontology, domain ontology, application ontology), is an expensive affair both in terms of human resources and other infrastructural resources. Hence, the ideal situation would be to reuse the existing ontologies to reduce the development effort and cost, and also to improve the quality of the original ontology. In the current work, we present an ontology metadata vocabulary called Metadata for Ontology Description and publication (MOD). To design the vocabulary, we also propose a set of generic guiding principles and a well established methodology which take into account real concerns of the ontology users and practitioners.