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ITKS544: Semantic Web and Ontology Engineering

- CV: http://users.jyu.fi/~syibkhan/cv.html
- OWL: http://users.jyu.fi/~syibkhan/cv-ontology.owl
- Pprj: http://users.jyu.fi/~syibkhan/cv-ontology.pprj
- Repository: http://users.jyu.fi/~syibkhan/cv-ontology.repository

Introduction:

Basically I had no previous knowledge about Semantic Web. I am a very good "Google Search" user, to find out anything. Semantic web course has given me the idea of relation based information system, where I can open a chain of info by the key. An enriched ontology would help to find out knowledge about the object . It's the instance of structured data.

Semantic annotation of myself according CV:

Here me **Ibrahim** is the key person of the ontology. I am a member of my family. I tried to cannote myself semantically with other object of the ontology. As a part of family, I have father, mother, sister, brother, son and daughter. Beside my description (e.g. education, activity, visited place, personal info) I have described other members info too. I elaborate info regarding organization where I studied, where those are situated, URI of them. My hobby, leisure activity places are mention with URI and relation with staying place. It seems now I am semantically connected the objects of the ontology.

Use of appropriate ontology:

Ontology helps to build more intelligent and interoperable pervasive computing applications, it analysis clarifies the structure of knowledge. Without ontology the data would be just a type of vocabulary which makes no knowledge. We can share this knowledge representation language (my CV ontology) with others who have similar needs for knowledge representation in that domain, thereby eliminating the need for replicating the knowledge-analysis process. For example, I was a student of a school, now I am a student of an university, later on I could be an employee of any company. Now, if all these three need my info the can just share same CV URI. Same situation for my family members who wants to represent me with a relationship with him / her. By this process I am shared with other relation too, through me information about University of Jyvaskyla is also represented. Now it is a structural database for me, any machine can also read it and retrieve needed data about me.

References:

1. B Chandrasekaran, John R. Josephson, V. Richard Benjamins. " What Are Ontologies, and Why Do We Need Them?" *Theory and Practice of Knowledge Representation, Paper.* www.csee.umbc.edu/courses/771/current/papers/chandrasekaranetal99.pdf

2. Natalya F. Noy and Deborah L. McGuinness. " Ontology Development 101: A Guide to Creating Your First Ontology" http://protege.stanford.edu/publications/ontology_development/ontology101-noy-mcguinness.html