Abstract

Ontology is generally defined as an explicit specification of conceptualization which involves the exploration of concepts and its relationships in the domain of interest. Ontology is used to share knowledge across semantic web services, agents and information systems. Therefore the ontology engineer should follow a methodology during the ontology construction to ensure its reliability. This paper presents ontology building methodologies such as Uschold and king [3], Viral Hepatitis Ontology design Methodology [4] and Amaya Berneras et al [9]. Moreover the paper presents Rheumatoid and Osteoarthritis ontologies which belong to the medical domain and a proposal for a new methodology applied to build the two medical ontologies. What distinguishes the proposed methodology is the execution of knowledge representation which involves the use of conceptualization and inference rules.
Index Terms

Computer Science

Information Sciences

Keywords

Ontology Building  Knowledge Base  Medical Ontology  Rheumatoid  Osteoarthritis