

## **Ontology development life cycle: a review**

### **ABSTRACT**

It is widely known that ontology plays a major role in semantic web as machine understandable language. There are many methodologies have been developed in the last two decades. However, the degree of maturity and acceptance of these methodologies is still lacking due to the insufficient information about the techniques employed in them. Different methodologies provide different notions of development life cycle. Some methodologies can be manually created or semi-automatically created. Some methodologies are application-driven or application independent. Some methodologies follow an iterative development life cycle and some are not. Their application in real project is comparatively limited despite of their growing number. This study presents the similarities and differences of some prominent methodologies based on six phases of the ontology development life cycle, namely scope definition, capturing, encoding, integration, evaluation and documentation. Another important aspect of ontology development is the ontology evolution. This topic is also presented in this paper.