Ontology Alignment Mechanisms for Improving Web-Based Searching

Abstract

In my talk, I will present my current work on Ontology Alignment Mechanisms for Improving Web-Based Searching. Several Ontologies have recently been developed and made publicly available in different domains. On one hand, some of these Ontologies contain overlapping information, on the other hand, services may be represented in more than one language which causes difficulty in service identification, consequently, that creates a need to map or match them in order to be able to use them effectively or to exchange information in semantic ways. The process of determining correspondences and alignment between concepts or objects for pair of Ontologies is known as ontology matching or alignment. Recently, many approaches have been proposed to do mapping or alignment but they have some limitations, thus, in my proposal I will try to solve these limitations.

In this talk, I will present an overview of Ontology, overview of Web-Based Ontology Languages and Description Logics (DLs), Ontology Alignment and other related operations, and the mismatching between Ontologies. Finally, I will present my proposed mechanism.