Alignment Methodological Approach of Evolving Domain Sub-Ontologies using Terminological and Structural Matchers

Abstract

The use of ontologies to resolve problems of semantic interoperability has become a considerable challenge. To pool distributed and shared knowledge, the handling of ontologies requires defining "set of matches" to align them. This alignment process of ontologies is deemed to be complex as it is based on the measure analysis of similarity (Matchers). We suggest in this paper the classification of different alignment techniques combining at the same time several methods to generate semi-automatically Mapping. Opposite to these techniques, we present helping methodological approach of sub-ontologies alignment. We propose a realistic approach adapted to tourism domain which covers many sub-domains.

References


Index Terms

Computer Science
Information Sciences

Keywords

Global ontology, domain sub-ontologies, ontologies alignment, Similarity measuring, Mapping, Matcher, Semantic interoperability.