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

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 123
Number 15

Year of Publication: 2015

Authors:
Khalid Tatane, Brahim Er-Raha, Chihab-eddine Cherkaoui, Sanaa Mouhim

10.5120/ijca2015905710

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

And Economic Intelligence.


Index Terms

Computer Science
Information Sciences

Keywords

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