عنوان مقاله:

Designing Controlled Natural Language (CNL) for Arabic based on OWL

محل انتشار:

نخستین همایش ملی هوش مصنوعی و علوم اسلامی (سال: 1399)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Recently the development of knowledge representation has been movingto model concepts on Web Ontology Language (OWL). OWL is acomputational logic-based language such that knowledge can be reusedfor any time, read and exploited by machine. Some purpose of this modelingis to confirm the truth of the consistency of that knowledge or tomake implicit knowledge explicit. By ontologies, we can separate domainknowledge from the operational knowledge, share common understandingof the structure of information among people or software agents,consider all our knowledge for any time and it is resistant against forgetting,change some of our basic beliefs and perceive the results. OWLdocuments, known as ontologies, can be published in the World WideWeb and may refer to or be referred from other ontologies.By using SPARQL, any query from the knowledge base can be representedand semantic query and search are available. Semantic Web RuleLanguage (SWRL) is also provided to extend the set of OWL axioms toinclude Horn clause rules and then we can conclude many consequencesof our knowledge from our axioms, statements, assertions, etc. Finally,any individuals can be added to our knowledge base and KnowledgeGraph will be ready.

کلمات کلیدی: