SimplePARQL: a New Approach Using Keywords Over SPARQL to Query the Web of Data

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ABSTRACT

The SimplePARQL is a new and intuitive approach to query the Web of Data through existing SPARQL endpoints by using *keywords* in addition to SPARQL elements. Thus, the user is able to write more expressive pseudo-SPARQL queries where knowing the ontology (classes and properties) and resources' identifiers from an RDF base are not required. Concretely, a SimplePARQL query is transformed into N valid SPARQL queries that extend the initial query in order to reach the IRIs or literals in the RDF bases corresponding to keywords. We implemented our approach on the platform `universal-endpoint.com`, where SimplePARQL queries can be written and executed on different RDF bases at the same time; SPARQL queries are accepted too.

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Categories and Subject Descriptors

I.2.4 [**Knowledge Representation Formalisms & Methods**]; H.3.3 [**Information Search and Retrieval**]: Query formulation, Search process; H.5.2 [**Information interface**]

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