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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