

Ontology-Based Representation of Islamic Rules to Perform Salah

Authors : Hamza Zafar, Quratulain Rajput

Abstract : Salah (صلاة) is one of five pillars of Islam and obligatory for every Muslims. However, due to the lack of Islamic knowledge it might be very difficult for a layperson to perform it correctly. This paper presents an ontology based representation of Islamic rules to perform Salah. The Salah ontology has been built under the guidance of domain expert in light of Quran and Hadith. The ontology consists of basic concepts as well as relationship among concepts and constraints on them. The basic concepts include cleanness, body cover, Salah timing and steps to perform Salah. The SWRL rule language has been used to represent rule to determine whether the Salah performed correctly or it should be repeated. Finally, we evaluate the use of the Salat ontology through user's example queries using SPARQL queries.

Keywords : prayer, salah, ontology, SPARQL queries, reasoning

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