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Artificial Intelligence State-of-the-Art for Improving the Performance of Islamic Sciences Studies

On the one hand, the development of computational intelligence technologies, and on the other hand, the deep semantic layers of religious texts, motivates researchers to investigate, further, in this area toward intelligently mining propositions and rules in religious texts. The discovery of new semantic layers of data in this field can effectively contribute to deepening the religious beliefs and practices in human life.

The entrance of software engineering, information technology, and smart systems to Islamic sciences has yielded promising results, which were hardly feasible, before. In this line, valuable efforts such as multi-layer statistics, automatic indexing, automatic hyperlink generation, automatic labeling, morphological and syntactic analysis of a text, co-reference resolution, and advanced search are already helping Islamic scientists to reach their purposes.

However, there are other fields of Islamic studies especially in the semantic layer, in which artificial intelligence can be applied. They include semantic search, semantic sense representation, semantic text markup, question answering, knowledge extraction, knowledge retrieval, automatic deduction, contradiction detection, argumentation mining, proof checking, and theorem proving.

Considering that the application of artificial intelligence in the above-mentioned areas can improve the speed, accuracy, and performance of Islamic studies, in this speech, we aim to specify the state-of-the-art studies for motivating the researchers to study in the application of such fields with the purpose of upgrading the research in the Islamic areas.