

عنوان مقاله:

Web-based Simulation Using Semantic Web

محل انتشار:

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خلاصه مقاله:

The area of Web-Based Simulation (WBS) has been grown rapidly. On the other hand, semantic web has attracted significant attention during the last decade. One of the missions of the semantic web is to put more knowledge on the web in an organized fashion and link it to other information and data sources and provide a means to relate various information concepts more easily and in a reusable way. This paper focuses on developing WBS systems using semantic web. To do so, after a short reviewing of semantic web, the advantages and disadvantages of WBS over classical simulation systems are explored. Afterward, the synthesis between semantic web technologies and WBS are discussed in which the semantics of information and services on the web are defined, understand and satisfy the requests of people and machines use the web content. The semantic web acts as an additional layer on the top of the web, and is built around explicit representations of information concepts and their relationships such as ontologies and taxonomies and tries to realize a new modeling method for rapidly constructing simulation systems. It was concluded that the future of WBS may be found in the semantic web. Finally the advantages of using semantic web for WBS are outlined. The results are justified using some simulation experiments

کلمات کلیدی:

Web-Based Simulation, Semantic Web, Ontology, Semantic Search Engine

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