Abstract

Technology Supported learning Systems have proved to be helpful in many learning situations. These systems require an appropriate representation of the knowledge to be learned, the Domain Module. The authoring of the Domain Module is cost and labor intensive. A novel DOM-Sortze is a system that uses natural language processing techniques, heuristic reasoning, and ontology for the semiautomatic construction of the Domain Module from electronic textbooks. To determine how it might help in the Domain Module authoring process, it has been tested with an electronic textbook. Its work presents novel DOM-Sortze and describes the experiment carried out. Novel DOM-Sortze comprises improving the generation of the LDO. It is planned to enhance the grammar for identifying pedagogical relationships. Novel DOM-Sortze is currently able to process images in the electronic document, it only considers their position in the text, and not where the image is referenced. Novel DOM-Sortze is being enhanced to support multilingual Domain Module generation. The LDO ontology supports the multilingual representation of the domain topics, and machine translation might be used to get approximate translations of the gathered LOs, used for searching and retrieving from the LOR or web pages.
Ontology based Automatic Module Generation from E-book


Index Terms

Computer Science
Information Science
Keywords
Domain module  LDO  DOM-Sortze  heuristic  Technical Supported Learning Systems  Ontology.