Abstract

World Wide Web (WWW) simulation is an engineering tool with enormous potential impact on education, by combining the modeling capabilities of traditional simulation tools with the communication capability of the Internet. This paper describes educational website based on integration between web-based simulation and retrieval strategies. Learners were classified according to their retrieval strategies (organizational - rehearsal) and were exposed to the proposed educational website which explained computer networking concepts in two different formats. The first used simulation only while the second considered the retrieval strategy. The experimental results showed the effectiveness of the proposed system in enhancing academic achievement for organizational learners more than for rehearsal learners.

References


- McBride, S. D., & Dwyer, F. M. 1982. The Effect of Organizational Chunking and
Retrieval Strategies in Facilitating Learning and Recall of Cognitive Learning Tasks, ERIC. Available from: http://www.eric.ed.gov/ERICWebPortal/custom/portlets/recordDetails/detailmini.jsp?_nfpb=true&_&ERICExtSearch_SearchValue_0=ED223202&ERICExtSearch_SearchType_0=no&accno=ED223202

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