عنوان مقاله:

The Evaluation of Knowledge Based on Bayesian Network and Ranking of Students in an Intelligent Tutoring System

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خلاصه مقاله:

Intelligent tutoring system is a dynamic personalized environment which makes use of e-learning system's benefits. In this paper, a new approach using Bayesian network is proposed to evaluate and analyze the perception level, knowledge level and the skill level of students in an intelligent tutoring system. Further, the levels of perception, knowledge, and student's skills are clustered into four groups of very low, low, average, and high utilizing k-means clustering algorithm. Hence, the system has the capacity to suggest applicable recommendations to each student. To evaluate the proposed approach, it has been applied on the recorded factual data which are provided by the students during an Artificial Intelligence (AI) course. The obtained results confirm that our approach is achieved a remarkable performance.

کلمات کلیدی:

Intelligent Tutoring System, E-learning, Bayesian Network, Clustering

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