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Abstract
An adaptive assessment system, AAS, based on the revised Bloom's taxonomy and scale anchoring is proposed. The revised Bloom's taxonomy and scale anchoring is used to analyze the quality and quantity of items and get the items’ characteristic information. Finally, the items’ characteristics and learners’ test portfolio are used to achieve the adaptive assessment.This research puts forth a adaptive assessment strategy，it based on the revised Bloom's taxonomy and scale anchoring to analysis the items, and get the qualitative index that represent the ability of learner , and get the quantitative index that represent the difficulty of item, to testing learner can more accurate valuation the degree of the learner. In addition, design an inference engine to support the teacher to analyze the quality of items, the inference engine can execute the analysis of the revised Bloom's taxonomy, this research put forth the inference rule to find the item’s cognitive process dimension and knowledge dimension.The features of the AAS are: providing a on-line item base to help the teachers manage conveniently items; giving the learners to learner some specific curricula again according to the information stored in the item base; and achieving the objective, precise assessment by analyzing the items’ characteristics. Finally, the result of experiment shows the scale anchoring can exactly class the item’s difficulty. And the inference rule also shows from the particular major category of knowledge dimension to find the particular major category of cognitive process dimension. This inference result is mostly the same with the result of expert.
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