

Vocational professional certification learning cognitive assessment
evaluation based on rule-space and ontology

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Abstract

In this paper, we used the rule-space model to diagnose the cognitive skills for assessment evaluation in SCJP (Sun Certified Java Programmer) course. The rule-space approach supports cognitive analysis of student's Java programming skill. And then to comprehensive what learning tops are weaknesses or strengths by individuals. We implemented a web testing application for SCJP testing simulation. In our experiences, this approach can provide to understand the learning characteristic for e-learning achievement and to explore better educational application in the future.

Keyword : E-Learning; Course Assessment; Ontology based; Petri Net; Virtual University