

A HYBRID MODEL FOR STUDENT ASSESSMENT IN A VIRTUAL EDUCATIONAL ENVIRONMENT

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Abstract. *One of the challenges in teaching students in a virtual environment is ensuring fair assessment. Any such educational environment provides opportunities for test examination. However, the test score generated often does not correspond to the students' actual knowledge and differs significantly from the teacher's current observations. The hybrid model for assessing students in a virtual educational environment combines different assessment methods and tools used in online education. This model can be effective by combining the advantages of different methods and providing a detailed view of student progress and achievement. The article examines a hybrid model of student assessment in a cyber-physical multi-agent educational environment, where a proposal for a more thorough and fair assessment is formed employing a dialogue between agents serving the test system, the database with the information accumulated in it regarding the knowledge and learning outcomes of each student, and the personal assistant of the teacher. The considered model will be tested using the formal semantics of the Calculus of Context-aware Ambients (CCA).*

Key words: Student assessment, Virtual educational environment, Calculus of context-aware ambients.

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