

Student and Group Activity Level Assessment in the ELARS Recommender System

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Abstract : This paper presents an original approach to student and group activity level assessment that relies on certainty factors theory. Activity level is used to represent quantity and continuity of student's contributions in individual and collaborative e-learning activities (e-tivities) and is calculated to assist teachers in assessing quantitative aspects of student's achievements. Calculated activity levels are also used to raise awareness and provide recommendations during the learning process. The proposed approach was implemented within the educational recommender system ELARS and validated using data obtained from e-tivity realized during a blended learning course. The results showed that the proposed approach can be used to estimate activity level in the context of e-tivities realized using Web 2.0 tools as well as to facilitate the assessment of quantitative aspect of students' participation in e-tivities.

Keywords : assessment, ELARS, e-learning, recommender systems, student model

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