

Abstract

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Using Fuzzy Techniques to Model Students in Web-Based Learning Environments

The paper illustrates how fuzzy techniques can be used to address problems experienced in widespread computing systems for distance learning. We have developed the TADV (Teacher ADVisor) framework, which builds student, group, and class models based on the tracking information generated by a Web Course Management System (WCMS) and uses these models for generating advice to the course instructors/facilitators. This paper introduces TADV and describes the fuzzy approach used for extracting individual, group, and class models.