

Abstract

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Using Student and Group Models to Support Teachers in Web-Based Distance Education

The paper illustrates how student modeling and advice generation methods can be used to address problems experienced in Web-based distance education courses. We have developed the TADV (Teacher ADvisor) framework which builds student models based on the tracking data collected by a course management system; uses these models to generate advice to the course instructors, so that they can improve their feedback and guidance to distance students. The paper introduces TADV, describes how student, group, and class models are used for generating advice to the teachers, and discusses the viability of this approach based on an evaluative study with users.