

MonitAR*

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Abstract. In this video we present a novel application of Case-based Reasoning (CBR) that combines Intelligent Tutoring Systems (ITS) using Augmented Reality (AR) and prediction. The MonitAR system is an intelligent guidance system for users conducting procedures during periods when a human expert has limited or no availability to assist the user. Our approach takes advantage of the relational nature of time-series data to detect a task that the user is completing and diagnose the issue when the user is about to make a mistake. MonitAR uses AR cues to guide the user away from these potential mistakes. Using proven pedagogical models, MonitAR is able to effectively assist, train, or retrain users in domains ranging from astronauts to mechanics.

Keywords: Intelligent Tutoring System, Task Prediction, Augmented Reality

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