An Automated Object-Task Mining Model for Providing Students with Real Time Performance Feedback

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Research Motivation

The student-instructor ratio makes it difficult for students to receive real time, personalized feedback.

Research Objectives

Automated Feedback System that provides students with real time, personalized feedback.

Research Methodology

1) Laboratory Data Acquisition Using Multimodal Sensor
2) Data Mining Model Generation and Validation
3) Detection and Visualization of Student Performance
Automated Feedback System

Case Study

Object Detection
Student Task Identification

Path Forward

Investigate differences in students’ performance during STEM laboratory activities.

Acknowledgements