

ENHANCING LEARNING THROUGH PEDAGOGICAL DRIVEN RESPONSE TO INFERRED AFFECT

ABSTRACT

This invention is related to an affect-sensitive monitoring method and system for determining frustration of a student. The method comprises receiving a selected software application from a user. In response to receiving the selected software application, the method receives sequence of images from the image capturing device; receives a mouse timing log file; receives a keyboard timing log file; determines aggregated keyboard actions based on the keyboard timing log file; determines aggregated mouse actions based on the mouse timing log file; determines aggregated image actions based on the sequence of images; arranges each of the aggregated keyboard actions, mouse actions and image actions according to at least one selected machine learning based classifier; applies a decision template fusion algorithm on the arranged aggregated keyboard actions, mouse actions and image actions to obtain a final classification that indicates affect state of a subject.

Figure 1 to accompany the abstract