SYSTEM AND METHOD FOR USER COMPETENCY ASSESSMENT IN MARINE NAVIGATION

Abstract

The present disclosure generally relates to a computerized method and a computer device for assessing user competency in marine navigation. The method comprises: receiving eye tracking data measured from a user, the eye tracking data comprising a video and eye gaze data of the user's perspective during marine navigation; locating a region of interest in each of a plurality of image frames of the video based on the eye gaze data; feeding the regions of interest to a machine learning model; determining, from the regions of interest and machine learning model, a set of marine navigation tasks that the user is performing; and generating assessment data comprising the video for an assessor to assess the user's competency in the marine navigation tasks.

Figure 1