

Experience Capturing with Wearable Technology in the WEKIT project

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In this chapter, the authors focus on capturing an expert's experiences using wearable sensors. For this, first, we outline a set of high level tasks that facilitate the transfer of experience from an expert to a trainee. Next, we define a mapping strategy to associate each task with one or more low-level functions such as: gaze, voice, video, body posture, hand/arm gestures, bio-signals, fatigue levels, haptic feedback, and location of the user in the environment. These low level functions are then decomposed to their associated state-of-the-art sensors. Based on the requirements and constraints associated with the use cases from three different industrial partners, a set of sensors are proposed for the experience-capturing prototype. Finally, we discuss the attributes and features of the proposed prototype, along with its key challenges, constraints, and possible future directions.

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