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Patent Search

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Abstract:

The present invention relates to a portable system (200) and a method (700) for creating a virtual environment using IoT. A portable system (200) comprises a micro camera (210), a position sensor (220), a Global Positioning System (GPS) sensor (230), an eyeblink sensor (240), a microcontroller (250) and a battery (260). A software application (410) that runs on the computing device (400) receives the data from a cloud and the application allocates the pre-defined slots (510 and 520) on the display screen (500). The information from the cloud (300) is displayed on the slots (510 and 520) on the display screen. The live video stream is shown in the specific areas on the display screen (500). The system (200) and method (700) helps monitor the activeness of the remote participant in real-time based on the information received from the multiple sensors (220, 230 and 240).

Complete Specification

Claims:We claim

1. A portable system (200) for creating a virtual environment using the Internet of Things (IoT), comprising:
 - a) A micro camera (210) to capture the live video of the participant;
 - b) A position sensor (220) to track the position/movement of the participant;
 - c) A Global Positioning System (GPS) sensor (230) to identify the geolocation of the participant;
 - d) An eyeblink sensor (240) to sense the duration and frequency of eye blink and thereby sense the drowsiness;
 - e) A microcontroller (250) such to create a network and communication between the sensors; and
 - f) A battery (260) to power the components of the portable system.
2. The portable system (200) as claimed in claim 1, wherein the micro camera (210) is selected from a micro pinhole camera or USB camera used to capture the real-time video of the participant.
3. The portable system (200) as claimed in claim 1, wherein the position sensor (220) is selected from fiber-Optic position sensors, optical position sensors and ultrasonic position sensors.
4. The portable system (200) as claimed in claim 1, wherein the eyeblink sensor (230) is a reflective IR sensor that includes an infrared emitter and phototransistor.
5. The portable system (200) as claimed in claim 1, wherein the microcontroller (240) is an Arduino Uno microcontroller board based on the ATmega328P.
6. A method (700) of creating a virtual environment using IoT, the method comprising:

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