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Patent Search

Invention Title	A METHOD AND A SYSTEM FOR AUTONOMOUSLY TRAINING AND ASSESSING THE GYM USERS
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Abstract:

Title: A METHOD AND A SYSTEM FOR AUTONOMOUSLY TRAINING AND ASSESSING THE GYM USERS ABSTRACT A system (100) for guiding a user in a fitness center cor mobile robot companion (102) configured to be a personal trainer, the robot companion (102) comprises a LiDAR (206) to guide the user to a respective workstation; unit (208) to monitor the posture of the user, wherein the capturing unit (208) comprises a camera, and sensors; a user interface (210) to receive input data from the as display output data to the user; speakers (212) to generate warning tone/ contextual voice messages whenever the user fails to maintain the correct posture requi particular workout; a communication unit (214) to communicate with a data center (104); and a controller (216) connected to the LiDAR (206), the capturing unit (208), interface (210), the speakers (212) and the communication unit (214), the controller (216) is configured to receive, process, output data. Figure 2 is selected.

Complete Specification

Claims:CLAIMS

I/We Claim:

1. A system for guiding a user in a fitness center, the system (100) comprising:
 - a mobile robot companion (102) configured to be a personal trainer of the user, the robot companion (102) comprises:
 - a LiDAR (206) to guide the user to a respective workstation;
 - a capturing unit (208) to monitor the posture of the user, wherein the capturing unit (208) comprises a camera, sensors, and so forth;
 - a user interface (210) to receive input data from the user as well as display output data to the user;
 - speakers (212) to generate an alert tone/ contextual voice messages whenever the user fails to maintain the correct posture required for the particular workout;
 - a communication unit (214) to communicate with a data center (104); and
 - a controller (216) connected to the LiDAR (206), the capturing unit (208), the user interface (210), the speakers (212) and the communication unit (214), the controlle is configured to:
 - receive registration details of the user through the user interface (210);
 - determine the user, the workout regime, fitness plan, and so forth based on the registration details of the user;
 - guide the user to the workstation based on the workout regime of the user;
 - dislnav a short video of the workout and the required number of sets and repetitions to the user using the user interface (210);

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