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Patent Search

Invention Title	AI-BASED SYSTEM AND METHOD FOR AUTONOMOUS HEALTH ASSESSMENT FOR IMPROVING HEALTHSPAN IN ELDERLY CARE
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Abstract:

AI-BASED SYSTEM AND METHOD FOR AUTONOMOUS HEALTH ASSESSMENT FOR IMPROVING HEALTHSPAN IN ELDERLY CARE The present disclosure provides a health monitoring system that comprises multiple trackers situated in proximity to a user, integrated as wearable health trackers equipped with various sensors for data collection, including accelerometers, heart rate monitors, a camera, and EKG sensors. These trackers are linked to a processor responsible for processing the data obtained from the sensors, identifying physical health metrics, and performing necessary computations. A memory unit stores a pre-defined adaptive threshold tailored to the specific user and continuously updates this threshold over time. Additionally, the system features one or more cameras tasked with capturing and analyzing facial expressions and posture to detect signs of stress, discomfort, or mobility issues. Integrated alarms are finely tuned to trigger notifications when deviations from the pre-defined health threshold are detected. Further, the wearable health trackers include built-in GPS functionality for location tracking. FIG. 1 and FIG. 3 will be the reference figures.

Complete Specification

Description: TECHNICAL FIELD

[0001] The present invention pertains to the field of healthcare technology and more specifically, relates to a comprehensive continuous health monitoring system optimized for senior residents in assisted living facilities. This system integrates wearable health trackers, cameras, advanced sensors, artificial intelligence (AI) algorithms, and real-time data analysis to deliver proactive, personalized and comprehensive healthcare solutions.

BACKGROUND

[0002] Background description includes information that may be useful in understanding the present disclosure. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed disclosure, or that any publication specifically or implicitly referenced is prior art.

[0003] The aging population across the globe has given rise to an increased demand for specialized senior care services. Assisted living facilities play a pivotal role in catering to the healthcare needs of senior residents who may require assistance with daily activities and medical supervision. However, one of the persistent challenges in assisted care facilities is the efficient and continuous monitoring of the health and well-being of senior residents.

[0004] Traditional healthcare monitoring systems in assisted living facilities often rely on periodic check-ups and manual interventions, which may result in delayed responses to critical health issues. Furthermore, these conventional systems are typically resource-intensive and may not provide real-time insights into the evolving health status of residents. As a consequence, there is a pressing need for innovative and comprehensive health monitoring solutions that can enhance the quality of care, improve overall well-being, and reduce healthcare costs by facilitating early intervention.

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