

(54) Title of the invention : IoT Driven Artificial Intelligence-based Personalized wearable body temperature controlling device during exercise

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(57) Abstract :

IoT and AI are two of the fastest-growing technologies. Smart cities are common as more people move to cities. Smart cities revolutionize healthcare by improving efficiency, cutting costs, and prioritizing patient care. IoT and AI for remote healthcare monitoring (RHM) systems require smart city framework knowledge. Frameworks include technologies, gadgets, systems, models, designs, use cases, and applications. By collecting data, the IoT-based RHM system uses AI and ML. ML approaches are utilized to construct analytic representations and are integrated into clinical decision support systems and other healthcare services. Clinical decision support systems meticulously examine each component and recommend a specific treatment, lifestyle counseling, and care approach to patients. Technology supports healthcare applications and analyzes activities, body temperature, heart rate, blood glucose, etc. This method reviews smart city-supported health Internet of things (H-IoT) applications to identify the most relevant. This study also examines RHM technologies and systems by analyzing the most relevant monitoring applications based on multiple models using different IoT-based sensors while controlling devices during exercise. Many studies have shown that physical activity has positive effects on reducing stress and enhancing both mental and physical health. There has been a growing need in recent years for simple techniques to examine and evaluate living things by means of biological data collected by means of wearable sensors.

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