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Patent Search

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Abstract:

IoT and AI based Smart health monitoring wrist device to connect doctor-patient to assist immediate medical attention/guidance for BP, sugar, HB by exchanging data cloud ABSTRACT Patients including the elderly with heart disease, asthma, Alzheimer's disease, dementia, kidney illness, and other conditions that affect several body require routine health checks and emergency care. Numerous victims of the pandemic's outbreak were in agonising pain and required intensive medical treatment. The importance of wearable technology stems from its ease of use and ability to monitor a patient's health. This is due to the incapacity to communicate directly with the professionals. Consequently, an Internet of Things (IoT)-based wearable health monitoring system is given so that standard health parameters can be regularly monitored. Patients and physicians are interested in how intelligent health surveillance technologies could aid in the early detection of major health issues without the necessity of physical examination. This study demonstrates how the Internet of Things (IoT) may be utilised to develop a mobile, intelligent, and secure multivital signal monitoring system. The technology monitors a variety of physiological factors in real time.

Complete Specification

Description:DESCRIPTIONS

The development of new diagnostic and treatment tools for medical professionals has included significant effort and competition. Changes in the levels of particular physiological markers are usually associated with disease (e.g., heart rate, oxygen saturation, body temperature, blood pressure, etc.). Hospital diagnostics can identify whether or whether these conditions are present. A physiological parameter is evaluated to assess its deviation from the norm. In a large population, larger deviations from the norm are reliable predictors of mortality. Despite this, many individuals are unable to visit the clinic or hospital as often as they should. This could be due to a chronic condition requiring frequent doctor visits, a lack of time to travel to the hospital, or the location of the coordinating specialist in another nation. Hospital medical care can be highly expensive. Reliable options for these individuals include personal health devices that allow them to track and monitor their vital signs at home and be used to call for medical assistance in an emergency. Increasing numbers of individuals are interested in health-related devices for themselves. Due to recent advances in the Internet of Things (IoT) and wireless sensor networks, numerous attempts have been made to deliver patient data without the patient needing to visit the hospital. This gives clinicians the information they need to determine the next course of action or deploy the needed medical aid. In life-or-death situations, the prompt transmission of essential patient information can be the difference between life and death. Cloud computing has enabled the enhancement of IoT-based health monitoring systems; it also affected the processing and storage of data. By analysing and storing health data in the cloud, clinicians can monitor a patient's vital signs in real time or use them for historical research. The cloud offers various benefits, such as accessibility, dependability, and simplicity. Additionally, it has an exceptional value for keeping patient data secure. Numerous fields have explored the advantages and disadvantages of cloud computing in the healthcare industry. The bulk of cloud-based healthcare systems, however, do not safeguard the data they transmit or the patient information they retain. There is a possibility that the patient's confidentiality and identity will be compromised.

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Application Details

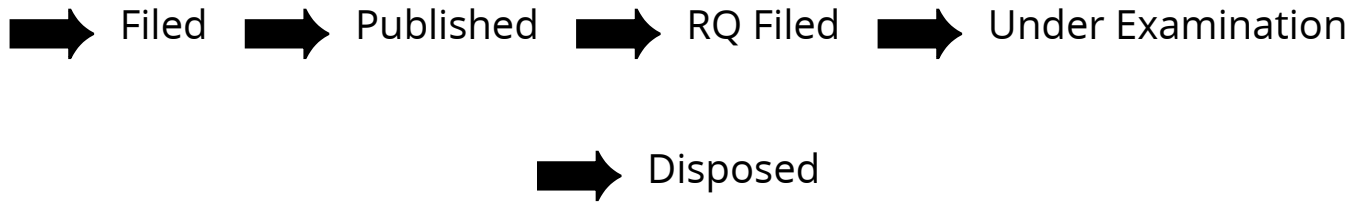
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