

Design of an IoT-based monitoring and surveillance device for asthma patients

Man Van Hung

Abstract: In the context of the rising prevalence of asthma, this topic focuses on designing and implementing an Internet of Things (IoT)-based asthma monitoring system. The objective of the research is to build a comprehensive solution to improve the quality of healthcare for patients. The research method combines theory with experimentation, including the design and deployment of IoT sensors to collect data on patient conditions, while developing a remote monitoring system. It is expected that this system will provide timely information to help doctors make more effective treatment decisions, thereby contributing to reducing the burden on the healthcare sector and improving patients' quality of life.

Keywords: IoT, asthma monitoring, IoT sensors, health tracking system, patient care