

Design and construction of an environmental monitoring and warning system in hospital rooms

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Abstract: In the current context, protecting public health and controlling epidemics has become more urgent than ever. This topic focuses on designing and building an environmental monitoring and warning system to early detect potential hazardous factors in disease prevention. The goal is to develop a comprehensive solution that meets the requirements for real-time tracking and notification of environmental quality in medical areas. The research method involves using digital sensors combined with machine learning to analyze real-time data. The system is expected to improve management efficiency, reduce the risk of infection, and contribute to building a safe and sustainable medical environment.

Keywords: environmental monitoring and warning system, disease prevention, digital sensors, machine learning