

Design and development of a smart laboratory environment monitoring system based on IoT platform

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Abstract: In the context of increasingly high standards in laboratory environmental quality management, this topic focuses on designing and developing an intelligent environmental monitoring system based on the Internet of Things (IoT) platform. The objective of the research is to build a system capable of collecting and analyzing real-time environmental data, thereby providing necessary reports and alerts to improve operational performance. The proposed method involves using IoT sensors and wireless communication technology combined with modern data processing algorithms. The expected results will contribute to enhancing the quality of laboratory environmental management, while providing practical solutions for laboratories worldwide.

Keywords: IoT, environmental monitoring, laboratory, IoT sensors, intelligent system