

Real-time classroom environment data collection and analysis system

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Abstract: This topic focuses on designing and implementing an automated system for real-time collection and analysis of classroom environment data. The context reflects the necessity of better understanding environmental factors in education to improve teaching and learning quality. The objective is to build an effective support system for classroom environment management, thereby contributing to an active learning process. The research method combines data science theory with applied experimentation to test advanced technological solutions. The expected results will play a crucial role in improving learning conditions and enhancing educational performance.

Keywords: Classroom environment system, Real-time data, Data analysis, Digital education, IoT technology