

A low-cost intelligent assistant for specific spaces.

With current technology, it is trivial to obtain global and county weather data through mobile applications. However in certain situations, more localized atmospheric data is desired. For example, when caring for indoor plants that prefer darker and humid environments, high temperatures or direct sunlight can be harmful. Additionally, pets left alone at home while their owners are at work may also be affected by changes in their immediate environment. Monitoring these small scale atmospheric changes could improve the living situations of these organisms.

This paper discusses a plan to use multiple commercially available low-cost sensors (including thermometers, barometers, light sensors, and humidity meters) to create a small observation station that measures environmental changes in a specific space. The collected data will be transmitted via the internet to mobile devices for further applications, such as automatic alerts, smart adjustments, and providing care recommendations for plants based on data analysis and historical records.

This integrated device will allow users to receive real-time updates on the environmental changes in the room, enabling them to respond promptly and take appropriate measures. With this information, there will be many potential applications in caring for both plants and animals.

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