

Design and experimental fabrication of a network-connected plant care support device using the LoRa standard.

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Abstract: In the context of IoT technology development, this topic focuses on the design and experimental fabrication of a network-connected plant care support device based on the LoRa standard. The objective of the research is to build an automatic monitoring system that allows collecting data on the surrounding environment and the health status of plants, thereby providing useful advice to farmers. The approach combines theory with experimentation to optimize device performance and energy efficiency. The expected result is to contribute a high-tech solution that can be widely applied in the agricultural industry, enhancing sustainability and efficient production.

Keywords: IoT, LoRa, Agriculture 4.0, Automatic monitoring, Wireless signal