

IoT application in monitoring and controlling automatic irrigation systems

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Abstract: In the context of increasingly developed agriculture, the necessity of optimizing irrigation processes becomes evident. This topic focuses on applying Internet of Things (IoT) technology to monitor and control automatic irrigation systems in order to enhance agricultural production efficiency. The objective is to build an IoT system capable of collecting data from sensors, processing information, and transmitting control signals to irrigation devices. The research method includes conducting experiments on farms to evaluate the effectiveness of the application. The expected result is to provide advanced technical solutions for the agricultural sector, while contributing to the development of IoT technology in the field of agriculture.

Keywords: IoT, irrigation monitoring, automatic system, agriculture, sensor