

Building a flood warning system based on the LoRa platform

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Abstract: This topic focuses on building an effective flood warning system based on the LoRa platform. In the context of climate change causing an increased frequency of natural disasters, developing an early warning system is necessary to minimize damage to the community. The objective of this research is to develop and deploy a LoRa-based system to monitor water levels and provide timely flood warnings. The method combines signal transmission theory with experimentation to optimize the accuracy and reliability of the system. The expected results from this topic will contribute to improving the ability to respond to floods, enhancing community safety, and creating a modern technical solution in the field of natural disaster warning.

Keywords: flood warning system, LoRa, water level monitoring, signal transmission, damage mitigation