

Building a flood warning system model for low-lying areas

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Abstract: In the context of increasingly complex and severe natural disasters, this study focuses on developing a flood warning system for low-lying areas to mitigate the negative impacts of flash floods. The main objective is to build a predictive and early warning model to support timely response measures. The research methodology combines theory with experimentation, including satellite data analysis and the use of machine learning to enhance system accuracy. The expected results will have significant implications for enhancing the safety of local communities and contributing to sustainable development.

Keywords: Flood warning, Low-lying area, Machine learning, Satellite data, Community safety