

**Title:** Flood Prediction Mobile App in Urban Areas in Davao City Using Rain Rate Interpolation Algorithm

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## **EXECUTIVE SUMMARY**

This study focuses on the development of Flood Prediction Mobile app Using Rain Rate Interpolation Algorithm, mobile that helps the society (user, barangay) to have a clear visions of the rain monitoring as well as alerts and warning if the precipitation volume reaches to point that it can cause a flooding. This will benefit all the commuter, households, private vehicle and almost all concerned about flooding to minimize the hassle of sudden flooding. The researcher's main purpose of this study is to provide users who live in a flood prone area an android application that can detect flooding percentile. This will alleviate unprepared damages due to sudden floods and accidents and hassles. After a series of validation and verification process, the application passed the testing phase and proved to have met the user requirements.

**Keywords:** Rain Rate Interpolation Algorithm, Real-time, Monitoring, Prediction.