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Real Time Urban Flood Prediction and Alerting System

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Abstract: *The proposed system integrates rain sensors to monitor precipitation levels in urban areas. These sensors continuously measure rainfall intensity and send data to a central control unit. By analyzing the rainfall data in real-time and comparing it with predefined thresholds, the system can predict the likelihood of a flood event.To actively manage floodwaters, the system utilizes water pumps strategically placed in critical areas prone to flooding. When the rain sensor detects rainfall exceeding a predetermined threshold, the control unit triggers the water pumps to start extracting excess water from the affected area. This proactive measure helps to prevent the accumulation of water and minimize the risk of flooding.*

Keywords: Flood detection

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