ABSTRACT

Every year, almost every region in Indonesia is affected by flood, seeing

flood disaster that happened in every area in Indonesia, hence need to make a

flood hazard notification system, in order to urge people to come flood in their

respective area. In the midst of rapid technological development with the presence

of mobile communication technology devices such as mobile phones are almost

owned by everyone and the support of internet technology, then the need for

information will be very quickly communicated.

Many systems have been used to overcome the problem of flooding. The

Android based flood monitoring system uses the Arduino uno system that is used

as a server in flood monitoring applications. This detection system consists of

hardware and software. In the hardware section, Arduino uno will be installed

with an ultrasonic sensor for data read and data transmission. In the software

section, an Andorid-based flood monitoring application will be created.

Based on the results of the research can be concluded that the application

of flood monitoring can work well in accordance with the expected level of

accuracy of readings made by ultrasonic sensors is of 60% to 100% depending on

the measured surface.

Keyword: Android, Arduino, Bluetooth, auto-detection Sensor