

## **Abstract**

Flood is a phenomenon not be accommodated by drainage. The cause of the flood is not only because of drainage but also due to natural conditions in a region that has a low ground. Therefore, when the rainy season, the area has soil conditions experienced flooding river water. then the required a system that can help to search for flood victims is by human detection using quadcopter.

Therefore, the system is implemented by the image processing to detect objects HOG humans. HOG is built on a system in a laptop that will be applied to monitoring flood victims. This application was applied for Badan Nasional Penanggulangan Bencana (BNPB) in order to help search for survivors effectively.

The results of this research are obtained optimal range accuracy for the detection of human object is 3 meters to 5 meters has to result in no circumstances coincide ie 90% - 80%. As for the time to come up to 76-108 ms with optimal resolution is 320 x 240

**Keywords:** computer vision, human detection, HOG, image processing,