

ABSTRACT

Indonesia is the third largest rice producing country in the world, there are many inhibiting factors for farmers in Indonesia and even around the world which cause considerable losses, one of which is the bird pest factor. To protect rice yields, farmers usually still use old methods, one of which is using firecrackers and pesticides, but this method will greatly impact the surrounding environment.

Smart bird repellent drones are designed as a tool that can solve the problems of farmers who still use old methods. This design uses the Computer Vision method which is useful for seeing the number of birds.

Computer Vision is engineering that uses computer technology to assist human work. An example is counting the number of vehicles in a parking lot and a computer with a camera can function as a human eye.

Computers can detect objects, recognize objects, map rooms, and other functions with certain algorithms. In this research, Computer Vision is used as a bird repellent with Raspberry Pi as a mini computer. It is expected that this bird pest repellent system will help farmers repel bird pests.

Keywords: *Drone, Computer Vision, Raspberry Pi, Bird Pest*