Cooperative control technology for robots and IoT devices

An effort to reduce harm caused by wild animals by controlling animal ecology

The harm caused by wildlife is seriously increased by expansion into wild animal habitat areas, reductions in hunting, and increased abandonment of cultivation farms. It is estimated that the damage that domestic wildlife causes amounts to over 20 billion yen annually. The problem is that the effects of intimidating wildlife by using sounds, light, etc., become weaker after a certain time period. We attempt to solve the problem by using cooperative control technology for robots and IoT devices.

Features

- Achieving collaboration between multiple robots and drones by utilizing cloud-ready interaction control technology (R-env)
- Intimidating wildlife by controlling animal ecology through collaboration with robots, drones, etc.
- Ascertaining wildlife conditions and changing intimidation methods accordingly

Application Scenarios

- Reducing amount of wildlife harm throughout relevant regions
- Providing agricultural IoT solutions through the use of agricultural sensors

(1) Detecting wild animals invading farms with a robot mounted camera

(2) Robots and drones cooperate to drive wild animals that have invaded farms into cages

(3) Capturing harmful wildlife in cages and notifying farmers by mail + video