

Transportation of Organs using UAV

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Abstract

Organ transplantation is the moving of organ from one person (donor) to another person (recipient). It is a challenging fact that organs should be transported within certain time limit in order to make the organ available to the patient as soon as possible. In metropolitan cities due to high traffic the transportation of organs become much complicated. To avoid this, in this paper an idea of using UAV (Unmanned armed vehicle) to transport organs is proposed. Drones can be controlled by both manually and automatically, here manually controlled drone is used. The motor and battery capacity is adjusted, such that it can be able to lift the organ box for a long distance. In this remote controlled drone a 360° camera is fixed to make a virtual environment. This drone is expected to transport around 50 to 60 kilometer in radius.

Keywords

Drone, Virtual environment, Donor, Recipient, Unmanned armed vehicle.

Biography

Nivedha Balakrishnan, is pursuing bachelors in Biomedical Engineering in Sri Ramakrishna Engineering College, Coimbatore. She is a member of Biomedical Engineering Society of India and IEEE.

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