Two-way charging for drone stations using foldable containers

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The most suitable wireless charging technique for UAVs is inductive power transfer (IPT). In this paper, a novel foldable coil and charge station design is proposed for the wireless charging of ...

The proposed solution aims to address these issues by enabling drones to recharge using both fixed charging stations (static vertiports) and mobile platforms (dynamic vertiports) integrated ...

We propose the creation of an automated charging station characterized by its cost-effectiveness, portability, and user-friendliness, facilitating seamless battery replenishment for drones.

A charging system for a drone carrying a passenger pod has a base structure connected to a power grid, a row of substantially planar wireless charging pads supported by the base structure,...

To address this need, we designed, prototyped, and tested an inductive charging system for wireless charging of small, low-cost drones. The constructed charging system consists of two main ...

This technique is comprised of a primary drone connected to a wireless receiver and a secondary charging drone integrated into a wireless transmitter. This secondary drone"s deployment ...

One of the most promising solutions to extend drone power autonomy is the use of docking stations to support both landing and recharging of the drone. To this end, we introduce a novel wireless drone ...

This paper addresses the problem of extending the drones operating range from a network design perspective, in which there is the possibility (already technically feasible) to recharge drones ...

The genius lies in the scalability of the container-based dock, capable of accommodating a wide variety of VTOL and fixed-wing drones, as well as flexible configurations to house either two ...

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In this paper, we propose an alternative solution for the automatic drone charging station based on magnetic induction principle and distance sensing.

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