UAV wind power generation

In this paper we propose a reinforcement learning (RL) algorithm for path planning of Unmanned Aviation Vehicles (UAVs) under varying wind conditions. Solutions to UAV path planning problems are ...

Solar energy harvesting for UAVs mainly relies on photovoltaic cells and can reach watt-scale output power. In contrast, mechanical energy harvesting for UAVs can be further refined to wind-induced ...

The high wind pulls the drone away from the ground station, driving the generator, and producing electricity. This technology can benefit the UK"s energy sector by reducing its carbon footprint, providing ...

However, a Durham, North Carolina start-up company is developing a system that employs a tethered-drone with a 12-foot wing span, capable of generating enough electricity to power an average size...

To aid or even completely fulfill a specific inspection task, an automated solution is proposed in this paper. The prototype is built on an M300 drone platform from DJI Technology Co. and is presented here. ...

To address this problem, we conduct an in-depth study of the 5G UAV path optimization method.

Designing a UAV route from households to commercial regions will always be possible, but the flight time might increase drastically based on changing wind dynamics. More turning points in a path will ...

The post Windlift"s Tethered Drones: Generating Power from the Skies with DoD Support appeared first on DRONELIFE.

Targeting the goal of achieving a 2-kilowatt airborne wind power generation, a conceptual framework for the integration of wind power blades and traction propellers is proposed, and parameters and metrics for an ...

UAVT provides propulsion solutions for both configurations, by either being the prime mover in a turboprop design or a hybrid range extender for battery powered drones. Our advanced gearbox technology and ...

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