

عنوان مقاله:

A Closed-loop Wireless Charging System for Aeronautical Applications Based on Artificial Gorilla Troops Optimization Algorithm

محل انتشار:

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خلاصه مقاله:

This paper presents a wireless charger system for electrical unmanned aerial vehicle (UAV) applications. The simulation results are given using the accurate battery model and two methods of battery charger using open-loop and closed-loop configuration, due to the importance of controller design, in this manipulation, The Artificial Gorilla Troops Optimization (GTO) algorithm was used to obtain the controller coefficients. The comparison study shows the closed-loop based charger has superior merit and it is a cost-effective solution.

کلمات کلیدی:

(wireless power transfer, unmanned aerial vehicle, charging station, Gorilla Troops Optimization (GTO)

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