

Intelligent Folding Container for Unmanned Aerial Vehicle Stations





Overview

Can unmanned aerial vehicles enable intelligent transportation systems (ITS) to be more efficient?

Abstract: With their inherent attributes such as mobility, flexibility, and adaptive altitude, Unmanned Aerial Vehicles (UAVs) can potentially enable Intelligent Transportation Systems (ITS) to be more efficient by playing the role of aerial base stations for data collection, data analysis, and communication networks.

Can aerial platforms support Advanced Air Mobility (AAM) in 3D ITS?

The existing ITS solutions operate mainly within a 2D domain, thus missing the potential benefits of aerial platforms. This paper envisions 3D ITS by integrating aerial platforms, such as Unmanned Aerial Vehicles (UAVs), to simultaneously improve network coverage and support multi-modal transportation, including Advanced Air Mobility (AAM).

Can UAVs be used as base stations for emergency communication services?

The utilization of Unmanned Aerial Vehicles (UAVs) as base stations for emergency communication services has garnered significant attention due to their lightness and agility. To increase the capacity and coverage of UAVs, the Capsule Airport (CA) is developed, which serves as a recharging and retrieval station for UAVs.

What is electric vertical take-off and landing UAV?

As a new type of UAV technology, electric vertical take-off and landing Unmanned Aerial Vehicle (eVTOL UAV) has the advantages of vertical take-off and landing, vertical flight and portability, which is widely used in military, civil and commercial fields.



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[Horizon \(folding drone\)](#)

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