

Energy Internet Completion Time



Overview

An efficient energy and completion time for dependent task computation offloading (ET-DTCO) algorithm is proposed, and it considers two quality-of-service (QoS) parameters: efficient energy and completion time offloading for dependent tasks in Industry 4. Abstract: Unmanned Aerial Vehicles (UAVs) hold great promise for Mobile Edge Computing (MEC) owing to their flexible mobility, rapid deployment, and low-cost characteristics. However, UAV-enabled MEC still faces challenges in terms of the real-time arrival of computational tasks, energy. III. Preliminaries and technical background IV. Internet of Things (IoT) started to appear in many fields, such as health care and smart cities. Yet, the insufficient onboard battery necessitates the optimization of energy consumption for both the.

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A methodology for designing trajectories with optimized energy consumption and completion time using circular paths and 3D Dubins curves in ...



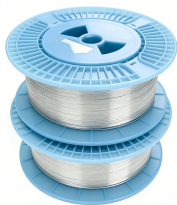
A methodology for designing trajectories with optimized energy consumption and completion time using circular paths and 3D Dubins curves in UAV-assisted communication networks ...




We jointly design the flying speed, UAV altitude, and antenna beamwidth to minimize the completion time and energy consumption. For a given beamwidth, the completion time decreases monotonically ...



In this paper, we propose the redefinition of EI, based on a comprehensive literature review, some latest trends and driving forces in the global energy industry, as well as its ...



We study the joint design of computation offloading and resource allocation, as well as UAV trajectory for minimization of energy consumption and completion time of the UAV, subject to ...

	<p>To reduce the energy consumption and improve the fusion performance, the control center schedules the UAVs to perform the tasks in an energy-efficient manner while synchronizing the completion time ...</p>
	<p>We target to minimize the completion time via a joint optimization of the UAV trajectory and transmit power, while considering the indispensable constraints which cover the maximum energy budget, ...</p>
	<p>In this paper, we address the computation offloading and resource allocation problem in NOMA-MEC enabled IoT networks, aiming to minimize completion time and maximize energy efficiency while ...</p>
	<p>The main contribution of the proposed algorithm can be summarized as proposing an offloading strategy for dependent tasks in Industry 4.0 taking into consideration two QoS parameters, ...</p>
	<p>This paper has presented a new UAVs-empowered MEC system, where several UAVs were deployed to serve UEs, aiming to minimize the weighted sum of energy consumption and task ...</p>
	<p>In this study, we focus on a UAV-enabled MEC scenario, where multiple UAVs function as airborne edge servers, offering computation services to multiple ground-based user devices (UDs). We aim to...</p>

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