

This paper considers the problem of deploying Unmanned Aerial Vehicle as flying base stations (UAV-BS) to support terrestrial communications networks, where the number of users is ...

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Abstract: Integrating unmanned aerial vehicles (UAVs) into wireless communication as aerial platforms to mount small cell base stations has grown rapidly in recent years.

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This repository is the implementation of the deep reinforcement learning (DRL) framework for multi-UAV 3D placement optimization proposed in the paper Adaptive 3D Placement of Multiple UAV-Mounted ...

Using Unmanned aerial vehicle (UAV) as base stations for providing communication services to urban residents has emerged as a novel trend in the era of the Internet of Things (IoT).

The emerging concept of 3D networks, integrating terrestrial, aerial, and space layers, introduces a novel and complex structure characterized by stations relaying backhaul loads through point-to-point ...

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We propose a novel systematic approach for the deployment optimization of unmanned aerial vehicles (UAVs). In this context, this study focuses on enhancing the coverage of UAV ...

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# **3D communication and small base stations**

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They have been used when conventional base stations" capacity is suffering in some extreme cases such as congestion inside the cell or a special event. This paper proposes an efficient ...

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