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Title: Mixed energy for small space communication base station

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In today's 5G era, the energy efficiency (EE) of cellular base stations is crucial for sustainable communication. Recognizing this, Mobile Network Operators are actively prioritizing EE for both ...

In this paper, we investigate the problem of energy efficiency maximization in a multiple AeBSs network and adopt multi-agent deep reinforcement learning (MADRL) for the deployment of ...

In this paper we formalize the deployment of micro BSs in the coverage area of macro BSs as a mixed integer nonlinear programming problem, and then propose, based on Kuhn-Munkres matching ...

In this paper, we propose to improve the density of SBS distribution hierarchically as well as the number of its layer, avoiding the difficulties in achieving high density antennas, which is known as the ...

We demonstrate that this model achieves good estimation performance, and it is able to capture the benefits of energy saving when dealing with the complexity of multi-carrier base stations architectures.

In this paper, we considered the positioning of UAV base stations in an ad hoc communication network. Specifically, we formulated the problem of positioning the UAV base ...

A joint load control based on energy sharing and dynamic on/off switching of a small base station is investigated in to reduce the grid power and efficiently utilize the renewable energy ...

Next, to overcome the complexity of combinatorial optimisation, Lagrange dual decomposition is applied to solve the power allocation problem and a sub-optimal distance-based BS ...

In this article, we propose a joint user association and SBSs configuration scheme for maximizing energy efficiency (EE) in hybrid-energy HCNs.



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Energy-Efficient Resource Allocation in OFDMA Systems with Hybrid Energy Harvesting Base Station

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