Communication green base station sharing ratio

In this context, a cooperative BS assignment and resource allocation (CBARA) strategy is proposed in this paper, aiming at jointly optimizing the communication and sensing (C& S) ...

In this paper, we consider a heterogeneous network consisted of one macro base station (MBS) and multiple small base stations (SBSs) where each base station (BS) is powered by both of renewable ...

This paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network (ADN) and constructs ...

For mobile networks powered by smart grids and green energy supply, the study in proposed an energy-sharing architecture among base stations based on physical lines and smart ...

Increasing the number of base stations would allow connecting more users, as well as improve the overall throughput metrics by ded-icating the base station to particular users which would reduce ...

In this article, a robust RL-based multicells sleeping model called graph deep deterministic policy gradient (GDDPG) is developed for handling highly complex communication scenarios. Besides, we ...

In particular, they pro-pose and show that the sharing of base stations by different operators could be a way to significantly improve energy usage; their numerical evaluations show a 35% additional energy ...

Abstract--Limited work has been done to optimize the power sharing among base stations (BSs) while considering the topology of the cellular network and the distance-dependent power loss (DDPL) in ...

B. Leng, P. Mansourifard, and B. Krishnamachari, "Microeconomic analysis of base-station sharing in green cellular networks," in Proceedings of IEEE Infocom, 2014.

Green network aims to promote the sustainable development of communication systems, and base station (BS) and cells sleeping has been proven effective in reducing the ...

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