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Title: 5g base station communication and joint communication

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Abstract--This work investigates a multibeam system for joint sensing and communication (JSC) based on multiple-input multiple-output (MIMO) 5G new radio (NR) waveforms.

This work investigates a multibeam system for joint sensing and communication (JSC) based on multiple-input multiple-output (MIMO) 5G new radio (NR) waveforms. In particular, we consider a ...

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 ...

ISAC integrates sensing and spatial location of passive (not connected) objects into the mobile communication network, expanding the network's functionality beyond just communication. ...

"Integrated Sensing and Communication in a 3GPP 5G system means the sensing capabilities are provided by the same 5G wireless communication system and infrastructure as used for ...

Therefore, this paper proposes an optimal dispatch strategy for 5G BSs equipped with BSCs. Firstly, a joint dispatch framework is established, where the idle capacity of batteries in 5G BS ...

Key focus in our paper is on base stations using the same spectrum both for communication and sensing purposes (with emphasis on radar sensing) with an integrated JCAS design.

In this article, we review ISAC signals from the perspective of 5G, 5G-A and 6G mobile communication systems from three aspects, namely signal design, signal processing, and signal optimization.

vide a promising base for new opportunities in terms of sensing, with an even increasing trend towards 6G. This is also reflected by the popularity gaining research area of joint communication and sensing ...

