Qeios

Peer Review

Review of: "Cell-Free Integrated Sensing and Communication: Principles, Advances, and Future Directions"

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This paper presents a state-of-the-art survey on the CF-ISAC concept, which integrates cell-free (CF) integrated sensing and communication (ISAC) to enhance spectral efficiency, energy efficiency, and sensing in next-generation wireless networks. The paper is well-written and easy to follow. It effectively delivers all the essential details in a concise and comprehensive manner, ensuring that readers have the information required for a full understanding of the potential of the emerging CF-ISAC paradigm. Consequently, this paper is well-suited for publication in the magazine.

The reviewer has provided several suggestions and comments below to help enhance the paper's overall quality:

1. The combination of some well-known existing techniques, such as Unmanned Aerial Vehicle (UAV), Non-Orthogonal Multiple Access (NOMA), Reconfigurable Intelligent Surface (RIS), and Backscatter, should be considered.
2. Add some content about Terahertz ISAC for 6G networks: system model, performance analysis, and evaluation criteria.
3. The font size should be bigger.

Declarations

Potential competing interests: No potential competing interests to declare.

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