Qeios

Peer Review

Review of: "Deep Learning-Based CKM Construction with Image Super-Resolution"

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CKM has been an emerging technology for reducing channel training overhead and enhancing environment-awareness communications. I think the paper is generally well-written, and the idea of using super resolution image processing for CKM construction is interesting. To improve readability, I have the following comments.

1) In practice, there are generally multiple propagation paths between the BS and the users. Do you consider such effects or only consider one dominant path?

2) Even for the same site map, if the BS location changes, it results in a different pathloss/angle map. So I wonder how many site maps you use. How many BS locations in each map do you consider?

3) By the way, please also clarify the size of each map. This will affect the resolution and accuracy of the CKM construction.

Declarations

Potential competing interests: No potential competing interests to declare.

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