Outlook

[EXTERNAL] Decision to Accept - OJCOMS-05871-2026, "Deep Learning-Enabled CSI Estimation and Detection in Modern Multi-Antenna Systems"

From IEEE Open Journal of the Communications Society <onbehalfof@manuscriptcentral.com>
Date Fri 29/05/2026 20:17
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29-May-2026

Prof. WEI XIANG

Paper: OJCOMS-05871-2026 "Deep Learning-Enabled CSI Estimation and Detection in Modern Multi-Antenna Systems".

Dear Prof. WEI XIANG,

We are pleased to inform you that the above manuscript has been ACCEPTED for publication in the IEEE Open Journal of the Communications Society (**See note below about attachments).

The expert reviewers and myself considered the revised version considerably improved, therefore I recommend it for publication.

However, one of the reviewers raised some valid comments which can can be addressed prior to submitting the final version of the paper. Hence, the authors are invited to take them into thorough consideration along with carrying out a thorough proof-reading of the final manuscript.

The IEEE Open Journal of the Communications Society has a commitment to deliver valuable technical information to the communications community in a timely manner. To that end, the IEEE Open Journal of the Communications Society, its editors, and staff are making every effort to ensure that the submission of finalized papers not be unduly protracted. We hope you will assist us by the careful preparation of your final submission.

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If you have any questions regarding the reviews, please contact the Associate Editor. Any other inquiries should be directed to Saeid HaghighiFard at saeidhaghighifard.ojcoms@gmail.com.

Thank you for your help and cooperation, which is greatly appreciated.

Best regards,

Dr. Paschalis Sofotasios
Associate Editor
IEEE Open Journal of the Communications Society
paschalis.sofotasios@ku.ac.ae

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Reviewer Comments:

Reviewer: 1

Recommendation: Accept

Comments:
The authors have carefully revised the manuscript and adequately addressed my comments and suggestions.

Thus, I have no further comments or suggestions.

Additional Questions:
1. Is the topic appropriate for publication in this transaction?: Yes

2. Is the topic important to colleagues working in the field?: Yes

Explain:

3. How would you rate the technical novelty of the paper?: Novel Enough for Publication

Explain: Please see the "Comments to the Author."

4. How would you rate the English usage?: Satisfactory

6. Rate the references: Satisfactory

If you are suggesting additional references they must be entered in the text box provided. All suggestions must include full bibliographic information plus a DOI.
: N/A

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Reviewer: 2

Recommendation: Accept

Comments:
I have no further comments.

Additional Questions:
1. Is the topic appropriate for publication in this transaction?: Yes

2. Is the topic important to colleagues working in the field?: Yes

Explain:

3. How would you rate the technical novelty of the paper?: Novel Enough for Publication

Explain: The authors conduct a literature review of recent deep learning technology in channel estimation and detection for a multi-antenna system. This review first introduces the background of massive MIMO, RIS massive MIMO, and deep learning. Then, a summary on DL-assisted channel estimation and detection are provided. Some research trends and future directions are provided.

4. How would you rate the English usage?: Satisfactory

6. Rate the references: Satisfactory

If you are suggesting additional references they must be entered in the text box provided. All suggestions must include full bibliographic information plus a DOI.
: N/A

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Reviewer: 3

Recommendation: Revise and Resubmit

Comments:
The authors have addressed some of previous concerns, but there are still some uncertainties in the current manuscript:
1. The basic channel estimation model is not described clearly: The authors stated that 'We assume a massive MIMO system with uplink pilots transmission.', which only limited in TDD. The author should justify whether or not this manuscript only focus on TDD. If the summarized approaches in the manuscript are not limited in TDD, the authors should make a clear explanation for the channel estimation principles in both TDD and FDD.
2. For the basic math model, the predefined assumption should be discussed, such as within or beyond the coherent time, with the fixed RIS phase shifts design, etc.
3. To enable an easier understanding, I recommend the authors change the order of DL categories in Section II-D as Model-driven ->Data-driven -> Hybrid;
4. The original STAR-RIS enabling the simultaneous transmitting and reflecting among STAR elements while the active RIS elements are another different elements than STAR-RIS. The authors stated 'Active STAR-RIS' in Fig.3, where the transmitting/reflecting working protocol and the passive/active status should be both highlighted in the figure.
5. The English usage should be further improved, i.e., 'The growing demand for high-speed ...', the 'high-speed' refers to high data volume or high-speed user movement?
6. The references should updated in the standard form with journal abbreviation.

Additional Questions:
1. Is the topic appropriate for publication in this transaction?: Yes

2. Is the topic important to colleagues working in the field?: Yes

Explain:

3. How would you rate the technical novelty of the paper?: Novel Enough for Publication

Explain: After the first round revision, the authors summarized the main difference, specific application scenario, and basic principle of DL-based channel estimation and detection.

4. How would you rate the English usage?: Needs improvement

6. Rate the references: Unsatisfactory (explain):

If you are suggesting additional references they must be entered in the text box provided. All suggestions must include full bibliographic information plus a DOI.
: N/A

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