

Geosci. Model Dev. Discuss., author comment AC1 https://doi.org/10.5194/gmd-2021-317-AC1, 2021 © Author(s) 2021. This work is distributed under the Creative Commons Attribution 4.0 License.

Reply on CC1

Licheng Liu et al.

Author comment on "KGML-ag: a modeling framework of knowledge-guided machine learning to simulate agroecosystems: a case study of estimating N₂O emission using data from mesocosm experiments" by Licheng Liu et al., Geosci. Model Dev. Discuss., https://doi.org/10.5194/gmd-2021-317-AC1, 2021

Hi Ather Abbas,

Thank you for posting this comment out. The feature importance test for our 4-layer GRU models were conducted by perturbation importance method. Specifically, we replaced one input feature of synthetic data with a Gaussian noise with mean μ =0 and standard deviation σ =0.01, while keeping others untouched. The experiment was conducted during testing stage and performance drop (Δ RMSE) was used as the score of feature importance. More details can be found in lines 220-225 of maintext.

Best regards,

Licheng Liu