

Interactive comment on “Development of a real-time on-road emission (ROE v1.0) model for street-scale air quality modeling based on dynamic traffic big data” by Luolin Wu et al.

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I am writing as an executive editor of GMD to highlight issues with the code availability section which needs to be remedied in the revised manuscript.

Thank you for providing the code associated with your manuscript. There are a few issues which are outstanding.

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Code is only on GitHub

Thank you for providing a reference to the full code and data used in the experiments presented in your manuscript. There are two problems with providing this data via GitHub. The first is that a reader cannot identify the exact version of the code that was used in the paper (for example, you may fix bugs or add features in the future). The second issue is that projects sometimes change the revision control system they use, or the hosting (the project might move to GitLab, for example). The solution to both of these issues is to provide a reference to a persistent archive of the exact version of the code that was used in the manuscript. This reference can, and should, be in addition to the GitHub link, so that a user can also always access the most recent version of the code.

Since your original code is hosted on GitHub, the easiest way to produce a persistent archive of a precise version is to use GitHub's Zenodo integration. For more details, see: <https://guides.github.com/activities/citable-code/>.

Please ensure that the revised version of your manuscript contains a reference to a persistent, public archive of the exact version of the code used to produce it.

It is not clear whether the data and scripts are complete

Your code should include all of the data required to produce the results in the manuscript, including any data processing and plotting scripts. It is not completely clear to me from reading the code whether this is the case here. Please ensure that all of this data is present, and that the documentation in the repository is sufficiently clear that a user will know how to use the code and data provided to reproduce the results in the manuscript.

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