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Grid-feedback-optimizer: A Python package for feedback-based optimization of power grid operation

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Software

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Summary

Statement of need

Primal dual: Dall'Anese & Simonetto (2018)

Gradient projection: Haberle et al. (2021)

Acknowledgements

Conflicts of interest

The authors declare no conflicts of interest.

References

Dall'Anese, E., & Simonetto, A. (2018). Optimal power flow pursuit. *IEEE Transactions on Smart Grid*, *9*(2), 942–952. https://doi.org/10.1109/TSG.2016.2571982

Haberle, V., Hauswirth, A., Ortmann, L., Bolognani, S., & Dorfler, F. (2021). Non-convex feedback optimization with input and output constraints. *IEEE Control Systems Letters*, *5*, 343–348. https://doi.org/10.1109/LCSYS.2020.3002152