

Interactive comment on “An improved low power measurement of ambient NO₂ and O₃ combining electrochemical sensor clusters and machine learning” by Kate R. Smith et al.

Anonymous Referee #1

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General Comments Overall this a well-written, well-organized contribution to the low-cost sensor literature. The authors demonstrate the importance of bespoke sensor calibration using several techniques, including sensor clustering and various statistical and machine learning techniques. Sensor clustering reduces uncertainty due to inter-sensor differences and overall accuracy is improved using several statistical/machine learning techniques.

Specific Comments -How accurate is ‘good enough’? I think a bit more context regarding this question would be helpful to readers.

-Overall, using SLR and ML techniques seems to be the largest source of improvement.

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Is sensor clustering even necessary?

-Does sensor accuracy vary over the observed concentration ranges?

Technical Comments p1 l30. 'site'->situated p2 l8, l19, l21... Check reference parentheses throughout p4 l25. Also Hagan et al. AMT 2018

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2018-285, 2018.

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