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Title: Small Air Quality Sensor Applications to Improve air quality forecasting and Community Engagement in Canada

Abstract:

Environment and Climate Change Canada recognizes the value of small, inexpensive air quality sensors to open up many prediction and service opportunities. In particular, these sensors have the potential to improve Air Quality Health Index (AQHI) forecasts and enhance community engagement regarding air quality issues. Being generally compact with low power requirements, the sensors offer flexibility to augment current datasets and provide a view on a finer spatial scale. This work describes the initial deployment and testing of small air quality sensors in Canada. The results from ongoing field evaluations will be presented including a case study during a wildfire smoke event in Western Canada during summer 2018.
