May 9, 2022

Editor

Environmental Science and Technology

To Whom It May Concern:

Please accept for consideration for publication in *Environmental Science and Technology* a manuscript entitled “Detecting Plumes in Mobile Air Quality Monitoring Time Series with Density-based Spatial Clustering of Applications with Noise (DBSCAN)” by Blake Actkinson and Robert J. Griffin. Both authors know and approve of its submission. It is not under consideration for publication in any other journal.

This manuscript describes application of a ‘big data’ statistical approach to air quality data sampled on a mobile platform. The method used allows assignment of data points as being part of source plumes (or not). Subsequent analysis allows the plume points to be linked to probable primary emission patterns. Spatial and temporal characteristics of plumes also are described. We believe that the work will be of interest to readers of *Environmental Science and Technology.*

This work appears in Dr. Actkinson’s thesis at Rice University. We have already contacted the editor-in-chief of *Environmental Science and Technology*, Dr. Julie Zimmerman, who has granted permission for this submission.

In addition to the submission of the manuscript itself, supplemental information, a list of suggested reviewers, and file figures were provided as part of the submission process. Please let us know if you need any further information.

Thank you for your consideration. We look forward to your positive reply.

Sincerely,

Blake Actkinson

Robert J. Griffin

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Dr. Actkinson’s thesis is under embargo for two years and will be adjusted to reflect publication of this work if it is accepted.