

Erratum

ERRATUM to: Toward a Causal PM_{2.5} Concentration Forecasting by Inferencing from Local Vehicle Tracking with a Low-Cost End-to-End Sensor System

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During the production process, incorrect text was inadvertently introduced into the Conclusion section of the published article [Toward a Causal PM_{2.5} Concentration Forecasting by Inferencing from Local Vehicle Tracking with a Low-Cost End-to-End Sensor System].

The correct Conclusion should read as follows:

This study has successfully demonstrated the feasibility of our novel approach to estimate PM_{2.5} concentrations using traffic density and readily available hardware, hinting at the possibility of PM_{2.5} measurement based solely on the amounts of motorbikes and cars. The implementation of a streamlined vehicle counting algorithm based on Yolov7 ensures robust performance in various conditions. For estimation, it is recommended to use the Cubist mode over the mathematical method due to Cubist's superior performance. By synergizing hardware and algorithmic advancements, we have opened avenues for further research into the determinants of urban air quality. Future work can focus on refining the system design, incorporating additional

environmental factors, and exploring more sophisticated machine learning models to further enhance prediction accuracy.

The Publisher apologizes to the authors and readers for this error.

Reference

- [1] Le, C. D., Pham, H. V., Tran, T. G., Le, A. D., Pham, A.-D., Vo, D. T., ..., & Han, H.-D. (2026). Toward a causal PM_{2.5} concentration forecasting by inferencing from local vehicle tracking with a low-cost end-to-end sensor system. *Artificial Intelligence and Applications*, 4(2), 187–196. <https://doi.org/10.47852/bonviewAIA62024212>

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