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NREL's Tools Assessing Performance (TAP)[™] Publications Through September 2022

Fytanidis, D.K., R. Maulik, R. Balakrishnan, and R. Kotamarthi. 2021. *A Physics-Informed Data-Driven Low Order Model for the Wind Velocity Deficit at the Wake of Isolated Building*. Argonne National Laboratory Report ANL-21/24. <https://doi.org/10.2172/1782670>.

Fytanidis, D.K., R. Balakrishnan, R. Kotamarthi, and P. Fischer. 2021. "Large Eddy Simulation of Canonical Urban Geometries." American Physical Society Fluids Division Meeting 2021, Nov. 21–23, 2021, Phoenix, Arizona. <https://ui.adsabs.harvard.edu/abs/2021APS..DFDT27001F/abstract>.

Fytanidis, D.K., A.G. Tombloulides, R. Balakrishnan, R. Kotamarthi, and P. Fischer. 2021. "Reynolds Average Navier-Stokes Simulations of Atmospheric Boundary Layer Flows Around Building-Like Obstacles Using NEK5000." Presented at 13th International ERCOFTAC Symposium on Engineering, Turbulence, Modelling and Measurements, ETMM13, Sept. 15–17, 2021, Rhodes, Greece.

Fytanidis, D.K., R. Maulik, R. Balakrishnan, and R. Kotamarthi. 2021. "Predicting Wakes Behind Buildings: A Machine Learning Approach for Extracting Physics Informed Low-Order Models From Highly Resolved Flow-Field Datasets." Presented at Platform for Advanced Scientific Computing Conference 2021 - PASC 21, July 5–8, 2021, Geneva, Switzerland.

Nelson, M., N. Duboc, P. Conry, A. Ortega, R. Linn, S. Pol, H. Shah, T. Gloeckler, P. Bieringer, A. Annunzio, B. Martin, and H. Tinneland. 2021. "Detailed Measurements of a Building Wake Under Real-

World Atmospheric Conditions." Presented at 25th Annual George Mason University Conference on Atmospheric and Dispersion Modeling, Nov. 2–4, 2021, Fairfax, Virginia. Los Alamos National Laboratory Report LA-UR-21-30853.

Duboc, N., M. Nelson, P. Patelli, P. Conry, R. Linn, P. Bieringer, A. Annunzio, B. Martin, and H. Tinneland. 2021. "Development of a Diffusive Building-Wake Model using Machine-Learning Trained by LES Simulations." Presented at 25th Annual George Mason University Conference on Atmospheric and Dispersion Modeling Nov. 2–4, 2021, Fairfax, Virginia. Los Alamos, NM: Los Alamos National Laboratory Report LA-UR-21-30852.

Nelson, M., N. Duboc, M. Deshler, P. Conry, A. Ortega, R. Linn, T. Gloeckler, H. Shah, and S. Pol. 2022. *Isolated Building Wake Experiment at Texas Tech University's Wind Engineering Research Field Lab*. Los Alamos, NM: Los Alamos National Laboratory Report LA-UR-22-20222.

Nelson, M., N. Duboc, P. Conry, R. Linn, S. Pol, H. Shah, T. Gloeckler, and H. Tinneland. 2021. *Building Wake Field Experiment*. Los Alamos, NM: Los Alamos National Laboratory Report LA-UR-21-25438

More Information

Learn more about TAP: www.nrel.gov/wind/tools-assessing-performance.html

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