

Expertise areas:



- Structural wind engineering
- Bridge and building aerodynamics
- Wind tunnel testing of structures
- Numerical simulations

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Recent Projects:

Experimental and Analytical Investigation of Behavior of Long-span Bridge Decks under Wind Effects, Funding Agency: TUBITAK, (2012)

Wind Effects on Bridges, Funding Agency: ODTU BAP (2012).

Wind Effects on High-rise Buildings, Funding Agency: ODTU BAP (2010).

Baku White City Residences, CFD Simulations for determining the wind effects on two different types of buildings, Ural Engineering A.S., (2013)

Baku International Airport, CFD Simulations for determining the wind effects on plane hangar structures, MAPA Engineering A.S., (2012)

Related Publications:

S. Coskun, H.A. Hazaveh, O. Uzol, **O. Kurc**, Experimental Investigation of Wake Flow Field and Wind Comfort Characteristics of Fractal Wind Fences, Journal of Wind Engineering & Industrial Aerodynamics, 168, 32-46, September (2017),

<https://doi.org/10.1016/j.jweia.2017.05.001>

S. M. N. Shojaee, O. Uzol, **O. Kurc**, Atmospheric Boundary Layer Simulation in a Short Wind Tunnel, International Journal of Environmental Science and Technology, February (2014), 11 (1), 59-68; <https://doi.org/10.1007/s13762-013-0371-4>

O. Kurc, B. Kayışoğlu, N. Shojaee, O. Uzol, Investigation of Wind Effects on Tall Buildings through Wind Tunnel Testing, Teknik Dergi, October (2012), Vol. 23, No.4

A. Abdulrahim, H. Kaya, O. Uzol, **O. Kurc**, Discrete Vortex Simulations of a Generic Bridge Cross-Section and Comparisons with Time-Resolved Particle Image Velocimetry Data, The 12th Americas Conference on Wind Engineering, Seattle, Washington, June 2013

A. Abdelrahim, I. A. Abdi, S. Haser, O. Uzol, **O. Kurc**, Experimental and Numerical Investigation of Wind Effects on Long Span Bridge Decks, Proceedings of Advances in Civil Engineering, Ankara, Turkey, October 2012