

Expertise areas:



- Aerodynamic design of tall buildings
- Tall building wind tunnel tests
- Tall building structural systems
- Assessing loss and risk of building portfolios

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Recent Projects:

Aerodynamic Performance of Tall Buildings with Wind Escape Floors,
May 2018 – present. Funding Agency: METU BAP

Investigation of Aerodynamic and Structural Features of Twisted Tall Buildings,
July 2016 – December 2018. Funding Agency: METU BAP

Investigation of DASK Compulsory Earthquake Insurance Premium Policy,
August 2015 – May 2016, Funding Agency: Türkiye Deprem Vakfı.

Statistical Evaluation of Turkish Building Stock,
January 2016 – December 2016. Funding Agency: METU BAP

Record Selection and Scaling for Söylemez Dam, Erzurum, Turkey,
July 2015 – January 2016, Dolsar Engineering A.Ş.

Recent Publications:

Bilgen, S., Ay B.Ö., Sezer Uzol, N., Orbay, E. (2018). Investigation of Aerodynamic and Structural Features of Twisted Tall Buildings, 13th Advances in Civil Engineering Congress, September 2018, İzmir, Turkey.

Soysal, F., Ay, B.Ö. and Arıcı, Y. (2017). An Investigation of the Ground Motion Scaling Procedures for the Nonlinear Seismic Analyses of Concrete Gravity Dams, Journal of Earthquake Engineering, DOI: 10.1080/13632469.2017.1342298.

Ay, B. Ö., Fox, M. J., and Sullivan, T. J. (2017). Technical Note: Practical Challenges Facing the Selection of Conditional Spectrum-Compatible Accelerograms, Journal of Earthquake Engineering, Vol. 21 (1), 169–180.

Bilgen, S. and Ay, B.Ö. (2017). The Motivation Behind Designing and Constructing Twisted Tall Buildings, World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium, June 2017, Prague, Czech Republic.

Orbay, E., Bilgen, S., Sezer Uzol, N., Ay, B.Ö., and Ostovan, Y. (2017). Numerical and Experimental Investigation of Aerodynamic Loads for Tall Buildings with Prismatic and Twisted Forms, The International Conference on Wind Energy Harvesting, April 2017, Coimbra, Portugal.