



Asst. Prof. Nejan HUVAJ
Dept. of Civil Engineering

Expertise areas:

- Onshore and offshore wind turbine foundations
- Offshore wind turbine site selection
- Geotechnical site investigations
- Experimental and computational geomechanics

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Recent Projects:

Workshop on Offshore Wind and Wave Energy for Turkey, 11-14 September 2017 at METU, Ankara, Turkey, jointly organized by University of Strathclyde (UK) and METU (TR). Funding Agency: UK Newton Fund Researchers Link

Legal, Technical and Commercial Roadmap for Supporting Offshore Wind Investments in Turkey, June 2016-March 2017, Funding Agency: UK Prosperity Fund, British Embassy Foreign & Commonwealth Office.

Consulting Project: Offshore Oil Platform Foundation (Spudcan) Penetration into Sea-bottom sediments, Funding Agency: Turkish Petroleum Corporation (TPAO), 2011

Mechanism, Modeling and Forecasting of Landslide Displacements, (2010-2013), Funding Agency: EU 7th Framework Programme Marie Curie Career Integration Grant

Offshore oil platform foundation (spudcan) penetration into soft sea-bottom sediments in Blacksea, 2011, Funding Agency: Turkish Petroleum Corporation (TPAO)

Recent Publications:

Oguz, E. A., Huvaj, N., Griffiths, D.V. (2018) Vertical spatial correlation length based on standard penetration tests, Marine Georesources and Geotechnology, <https://doi.org/10.1080/1064119X.2018.1443180>

Oguz, E.A., Huvaj, N. and Uyeturk, E. C. (2018) Variability in offshore soils and effects on probabilistic bearing capacity, 9th European Conference on Numerical Methods in Geotechnical Engineering, 25-27 June 2018, Porto, Portugal.

Emren, V., Huvaj, N., Tuncay, K. (2017) Three-Dimensional Finite Element Modeling for Spudcan Penetration into a Clayey Seabed, ASCE Geoinstitute, Geotechnical Frontiers March 12-15, 2017, Orlando, Florida <https://doi.org/10.1061/9780784480465.013>

Emren, V. (2015), Offshore oil platform foundation (spudcan) penetration into clayey seabed, M. S. Thesis, METU Civil Engineering Department, Thesis Supervisor: Nejan HUVAJ

Yaşar, B.E. (expected 2019), Optimum Design of Onshore Wind Turbine Foundations with 3D Finite Element Method, M. S. Thesis (ongoing), METU Civil Engineering Department, Thesis Supervisor: Nejan HUVAJ