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Expertise areas:

- Wind turbine rotor aerodynamics
- Wind Energy Assessment
- High Order Schemes

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Projects:

“Rotor Blade Design and Analysis for High Speed Helicopter. Supported by Undersecretariat For Defense Industries (SSM) and Turkish Aerospace Industry (TAI), December 2015-December 2018.

“Numerical and Experimental Investigation of Oscillating Wings for Power Production from Wind Energy. Supported by the Scientific and Technological Research Council of Turkey (TÜBİTAK-1001), 2013 – 2015.

“Low-altitude UAV for Regional Supervision and Ground Station Development, Supported by Ankara Development Agency, 2012.

Publications:

- Elfarra M. A, Uzol N.S., Akmandor İ.S., “Investigations on Blade Tip Tilting for HAWT Rotor Blades Using CFD”, International Journal of Green Energy, [Volume 12](#), [Issue 2](#), pages 125-138, 2015.
- Elfarra M. A, Uzol N.S., Akmandor İ.S., “NREL VI Rotor Blade: Numerical Investigation and Winglet Design and Optimization Using CFD”, Journal of Wind Energy, [Volume 17](#), [Issue 4](#), pages 605–626, April 2014.
- Mustafa Kaya and Munir Elfarra, “Numerical Optimization Of Oscillatory Motion Of A Flapping Airfoil For Maximum Power Production From Wind Energy”, 8th Ankara International Aerospace Conference, 2015.
- Elfarra M. A., Akmandor I. S., Uzol N. S., “*Pitch Angle Design Of NREL VI Wind Turbine Blade Using CFD*”, CFD & Optimization, ECCOMAS Thematic Conference, Antalya, Turkey, May 2011
- Elfarra M. A, Akmandor I. S., Uzol N.S, “*Investigation And Optimization Of Winglets For HAWT Rotor Blades*”, ETC 9, Istanbul March 2011.
- Elfarra M. A, Uzol N.S., Akmandor İ.S., “*Investigations On Tip Tilting For HAWT Rotor Blades*”, 10th International Conference on Clean Energy (ICCE-2010) Famagusta, N. Cyprus, September 2010.