

Lect. EZGİ ORBAY AKCENGİZ

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International Researcher IDs

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Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey 2016
- Continues

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey
2013 - 2016

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey
2008 - 2013

Dissertations

Postgraduate, Computational fluid dynamics simulations of ship airwake with a hovering helicopter rotor, Middle East
Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2016

Research Areas

Aeronautical and Space Engineering, Flight Sciences, Aircraft System Technologies, Aerodynamics, Mechanism and
Hydraulic / Fluid Systems, Engineering and Technology

Taught Courses And Trainings

Sezer Uzol N., Oğuz E., Orbay Akcengiz E., Aslan E., Adam A. A., Uçar M., Juanda Putra M., Önel H. C., EuroCC Türkiye -
METU RÜZGEM Training on "CFD and Performance Simulations of Wind Turbines", 2023 - 2023

Sezer Uzol N., Oğuz E., Orbay Akcengiz E., Juanda Putra M., Aslan E., Adam A. A., Önel H. C., EuroCC-Türkiye – METU
RÜZGEM Workshop on Wind Energy Computational Analyses, 2022 - 2022

Books & Book Chapters

I. CFD Simulations for Airfoil Polars

SEZER UZOL N., UZOL O., ORBAY AKCENGİZ E.

in: Handbook of Wind Energy Aerodynamics, Bernhard Stoevesandt, Gerard Schepers, Peter Fuglsang, Sun Yuping,
Editor, Springer, pp.206-233, 2021

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigating 3-D Flow Characteristics of Wind Turbine Airfoils using Delayed Detached Eddy Simulations at High Reynolds Numbers**
Akcengiz E., Uzol N. S.
2024 Science of Making Torque from Wind, TORQUE 2024, Florence, Italy, 29 - 31 May 2024, vol.2767
- II. **Transition Predictions of DU 00-W-212 and Investigation of Linear Solver Methods for High Reynolds Numbers**
Orbay Akcengiz E., Sezer Uzol N.
19th eawe PhD Seminar, Hannover, Germany, 6 - 08 September 2023
- III. **Transition Predictions for DU 00-W-212 Airfoil at High Reynolds Number and Comparisons with Experimental Measurements**
ORBAY AKCENGİZ E., Adam A. A., SEZER UZOL N.
Wind Energy Science Conference 2023, Glasgow, England, 23 - 26 May 2023
- IV. **Investigation of Aerodynamic Characteristics of Twisted Tall Building**
ORBAY AKCENGİZ E., SEZER UZOL N.
Uluslararası Katılımlı 23. Isı Bilimi ve Tekniği Kongresi, Gaziantep, Turkey, 8 - 10 September 2021
- V. **Rüzgâr Türbini Kanat Kesiti İçin Yüksek Reynolds Sayılarında Çözüm Ağı Bağımsızlık Çalışması**
ORBAY AKCENGİZ E., SEZER UZOL N.
6. İzmir Rüzgar Sempozyumu, İzmir, Turkey, 23 - 24 September 2021
- VI. **Aerodynamic Analyses of Thick Wind Turbine Airfoils for High Reynolds Numbers**
ORBAY AKCENGİZ E., ASLAN E., SEZER UZOL N.
11th Ankara International Aerospace Conference, Ankara, Turkey, 8 - 10 September 2021
- VII. **CFD Analysis of A Wind Turbine Airfoil at High Reynolds Numbers**
Aslan E., Orbay Akcengiz E., Sezer Uzol N.
2nd SU2 Conference, Virtual Event, 12-14 July 2021. <https://su2foundation.org/su2conference2021/>, 12 - 14 July 2021
- VIII. **Grid independence study for a thick airfoil: DU00-W-212 at high Reynolds numbers**
ORBAY AKCENGİZ E., SEZER UZOL N.
Wind Energy Science Conference 2021, Hannover, Germany, 25 - 28 May 2021
- IX. **SHIP AIRWAKE INVESTIGATIONS ON SFS2 WITH A HOVERING HELICOPTER ROTOR BY COMPUTATIONAL FLUID DYNAMICS SIMULATIONS**
ORBAY AKCENGİZ E., SEZER UZOL N.
8th Asian/Australian Rotorcraft Forum (ARF2019), Ankara, Turkey, 30 October - 02 November 2019
- X. **RÜZGAR TÜRBİNİ ROTORLARI İÇİN KALIN KANAT PROFİLLERİNİN HAD SİMÜLASYONLARI**
ORBAY AKCENGİZ E., SEZER UZOL N.
5. İzmir Rüzgar Sempozyumu ve Sergisi, İzmir, Turkey, 3 - 05 October 2019
- XI. **Investigation of Aerodynamic and Structural Features of Twisted Tall Buildings**
BİLGEN S., AY B. Ö., ORBAY AKCENGİZ E., SEZER UZOL N.
13th Advances in Civil Engineering Congress, İzmir, Turkey, 12 - 14 September 2018
- XII. **Numerical and Experimental Investigation of Aerodynamic Loads for Tall Buildings with Prismatic and Twisted Forms**
Orbay Akcengiz E., Sezer Uzol N., Bilgen S., Ay B. Ö., Ostovan Y.
The International Conference on Wind Energy Harvesting, Coimbra, Portugal, 20 - 21 April 2017
- XIII. **Computational Fluid Dynamics Simulations of Ship Airwake with a Hovering Helicopter Rotor**
Orbay E., Sezer Uzol N.
ICCFD9 9th International Conference on Computational Fluid Dynamics, Grand Cevahir Otel, Istanbul, Turkey, İstanbul, Turkey, 11 - 15 July 2016

Supported Projects

SEZER UZOL N., ORBAY AKCENGİZ E., ÇİÇEK H., MADENCİ M. A., Project Supported by Higher Education Institutions,
Döner Kanat Aerodinamiği ve Hesaplamalı Akışkanlar Dinamiği – Autogyro Tasarım ve Analizleri, 2016 - 2022

Metrics

Publication: 14

H-Index (WoS): 1