

Prof. OĞUZ UZOL

Personal Information

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Education Information

Doctorate, Pennsylvania State University, Havacılık Ve Uzay Müh., United States Of America 1995 - 2000

Post Graduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Havacılık Mühendisliği (YI) (Tezli), Turkey 1992 - 1995

Under Graduate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey 1988 - 1992

Foreign Languages

English, C1 Advanced

Advising Theses

Uzol O., Perçin M., Experimental investigation of the helicopter blade tip shape effects on aerodynamic performance and tip vortex characteristics, Post Graduate, S.ULUOCAK(Student), 2019

UZOL O., Experimental investigation of the turbulent near wake flow field of multiscale/fractal grids, Doctorate, H.AMIRI(Student), 2018

UZOL O., Experimental investigation of the effects of tip geometry on the flow and loss characteristics in a linear turbine cascade, Post Graduate, O.ALİCAN(Student), 2017

UZOL O., Winglets for wind turbines: An experimental study on aerodynamic performance and tip vortex behavior, Doctorate, Y.OSTOVAN(Student), 2017

UZOL O., SEZER UZOL N., Computational fluid dynamics simulations of ship airwake with a hovering helicopter rotor, Post Graduate, E.ORBAY(Student), 2016

UZOL O., Experimental investigation of the effects of tip injection on the characteristics of the tip vortex on a model wind turbine, Post Graduate, E.ANIK(Student), 2015

UZOL O., BARAN Ö. U. , Passive flow control in boundary layer ingesting semi submerged inlet, Post Graduate, U.CAN(Student), 2015

SARITAŞ A., UZOL O., Computational fluid dynamic analysis of wind loads acting on ground mounted solar panels, Post Graduate, V.EMRE(Student), 2014

UZOL O., Simulation of a non-premixed Swirl burner, Post Graduate, M.BURAK(Student), 2014

UZOL O., Investigation of the effect of turbulence on entropy generation in turbomachinery, Doctorate, Ö.EMRE(Student), 2014

UZOL O., Experimental investigation of the effects of tip-injection on the aerodynamic loads and wake characteristics of a model horizontal axis wind turbine rotor, Post Graduate, A.ABDULRAHIM(Student), 2014

UZOL O., TUNCER İ. H. , Experimental and numerical investigation of pressure swirl atomizers, Doctorate, B.SÜMER(Student), 2014

UZOL O., İç soğutma kanallarında türbülantör kullanımının incelenmesi ve rans temelli türbülans modelleriyle benzetimi, Post Graduate, S.DURMUŞ(Student), 2014

UZOL O., Aerodynamic analysis of flatback airfoils using vortex particle method, Post Graduate, S.SAYŞE(Student), 2014

UZOL O., An experimental study on boundary layer separation control over S809 airfoil using synthetic jet actuators, Post Graduate, M.GÜL(Student), 2013

Kurtuluş D. F. , Uzol O., Experimental Investigation of Boundary Layer Separation Control using Steady Vortex Generator Jets on Low Pressure Turbines , Post Graduate, E.Doğan(Student), 2012

KUTAY A. T. , UZOL O., Development of a high-fidelity transient aerothermal model for a helicopter turboshaft engine for inlet distortion and engine deterioration simulations, Post Graduate, Y.NOVIKOV(Student), 2012

UZOL O., Aerodynamic analysis of long-span bridge cross-sections using random vortex method, Post Graduate, H.KAYA(Student), 2012

UZOL O., Experimental investigation of the effects of waveform tip injection on the characteristics of tip leakage vortex in a LPT cascade, Post Graduate, B.MERCAN(Student), 2012

UZOL O., SEZER UZOL N., Three-dimensional flow solutions for non-lifting flows using fast multipole boundary element method, Post Graduate, U.KARBAN(Student), 2012

UZOL O., Compressor tandem blade aerothermodynamic performance evaluation using CFD, Post Graduate, Ç.GEZGÜÇ(Student), 2012

UZOL O., TUNCER İ. H. , Detached eddy simulation of turbulent flow on 2D hybrid grids, Post Graduate, Ö.YIRTICI(Student), 2012

KURÇ Ö., UZOL O., Experimental and numerical investigation of the wind effects on long span bridge decks, Post Graduate, I.AŞTIANI(Student), 2011

UZOL O., Design and analysis of a full scale air vitiator for high speed wind tunnel, Post Graduate, M.BAYRAMOĞLU(Student), 2011

UZOL O., SEZER UZOL N., Site specific design optimization of a horizontal axis wind turbine based on minimum cost of energy, Post Graduate, E.SAĞOL(Student), 2010

UZOL O., DEVELOPMENT AND VALIDATION OF A DESIGN TOOL FOR A GAS TURBINE COMBUSTION CHAMBER, Post Graduate, A.ELBİR(Student), 2010

UZOL O., A parametric investigation of tip injection for active tip vortex control, Post Graduate, R.CAN(Student), 2010

UZOL O., SEZER UZOL N., Investigation of rotor wake interactions in helicopters using 3D unsteady free vortex wake methodology, Post Graduate, Ö.YEMENİCİ(Student), 2009

ÖZGEN S., UZOL O., Parametric investigation of spray characteristics using interferometric particle imaging technique, Post Graduate, N.ERKİN(Student), 2009

UZOL O., Design and optimization of a mixed flow impeller using robust design methods, Post Graduate, M.ÇEVİK(Student), 2009

UZOL O., Aerothermodynamic modeling and simulation of gas turbines for transient operating conditions, Post Graduate, G.KOÇER(Student), 2008

ÖZGEN S., UZOL O., Experimental investigation of near and far field flow characteristics of circular and non-circular turbulent jets, Post Graduate, G.TAŞAR(Student), 2008

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Experimental Investigation of the Effects of Winglets on the Tip Vortex Behavior of a Model Horizontal Axis Wind Turbine Using Particle Image Velocimetry**
Ostovan Y., Akpolat M. T. , UZOL O.
JOURNAL OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME, vol.141, 2019 (Journal Indexed in SCI)
- **Experimental investigation of wake flow field and wind comfort characteristics of fractal wind fences**
Coskun S., Hazaveh H. A. , UZOL O., KURÇ Ö.
JOURNAL OF WIND ENGINEERING AND INDUSTRIAL AERODYNAMICS, vol.168, pp.32-47, 2017 (Journal Indexed in SCI)
- **Effects of tip injection on the performance and near wake characteristics of a model wind turbine rotor**
Abdulrahim A., Anik E., Ostovan Y., UZOL O.
RENEWABLE ENERGY, vol.88, pp.73-82, 2016 (Journal Indexed in SCI)

- **Effects of camberwise varying tip injection on loss and wake characteristics of a low pressure turbine blade**
Mercan B., Dogan E., Ostovan Y., UZOL O.
INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW, vol.54, pp.119-130, 2015 (Journal Indexed in SCI)
- **Atmospheric boundary layer simulation in a short wind tunnel**
Shojaee S. M. N. , UZOL O., KURÇ Ö.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.11, pp.59-68, 2014 (Journal Indexed in SCI)
- **Mathematical Modeling of the NOTAR Antitorque System for Flight Simulation**
YAVRUCUK İ., Bakir H. M. , UZOL O.
JOURNAL OF THE AMERICAN HELICOPTER SOCIETY, vol.58, 2013 (Journal Indexed in SCI)
- **Effect of steady and transient wind shear on the wake structure and performance of a horizontal axis wind turbine rotor**
SEZER UZOL N., UZOL O.
WIND ENERGY, vol.16, pp.1-17, 2013 (Journal Indexed in SCI)
- **Investigation of Wind Effects on Tall Buildings through Wind Tunnel Testing**
KURÇ Ö., Kayisoglu B., Shojaee S. M. N. , UZOL O.
TEKNIK DERGI, vol.23, pp.6163-6186, 2012 (Journal Indexed in SCI)
- **Investigation of the Linear Stability Problem of Electrified Jets, Inviscid Analysis**
ÖZGEN S., UZOL O.
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.134, 2012 (Journal Indexed in SCI)
- **Design optimization of a mixed-flow compressor impeller for a small turbojet engine**
Cevik M., UZOL O.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.83, pp.127-137, 2011 (Journal Indexed in SCI)
- **Panel-Method-Based Path Planning and Collaborative Target Tracking for Swarming Micro Air Vehicles**
UZOL O., YAVRUCUK İ., SEZER UZOL N.
JOURNAL OF AIRCRAFT, vol.47, pp.544-550, 2010 (Journal Indexed in SCI)
- **A database of PIV measurements within a turbomachinery stage and sample comparisons with unsteady RANS**
Uzol O., Brzozowski D., Chow Y., Katz J., Meneveau C.
JOURNAL OF TURBULENCE, vol.8, pp.1-20, 2007 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- **Comparison of Wake Models with Porous Disc Wake Profile Measurements**
Hazaveh H. A. , Bay A., Aysan M. S. , Yanik T., Yazdanpanah M., Yiğili İ., Yağmur A. S. , Perçin M., Uzol O.
Wind Energy Science Conference (WESC), Cork, Ireland, 17 - 20 June 2019
- **Helikopter Pal Ucu Şekillerinin Aerodinamik Performansa ve Uç Girdabına Etkisinin Deneysel Olarak İncelenmesi**
Uluocak S., Hazaveh H. A. , Perçin M., Akpolat M. T. , Uzol O.
7. Ulusal Havacılık ve Uzay Konferansı, Samsun, Turkey, 12 - 14 September 2018
- **Experimental investigation of the effects of helicopter rotor tip geometries on aerodynamic performance and tip vortex characteristics**
Uluocak S., Hazaveh H. A. , PERÇİN M., Akpolat M. T. , UZOL O.
44th European Rotorcraft Forum, 18 - 21 September 2018
- **Experimental study on power curtailment of three in-line turbines**
Bartl J., Ostovan Y., UZOL O., Saetran L.
14th Deep Sea Offshore Wind R and D Conference (EERA DeepWind), Trondheim, Norway, 18 - 20 January 2017, vol.137, pp.307-314

- **Experimental Study on the Effects of Winglets on the Performance of Two Interacting Horizontal Axis Model Wind Turbines**
Ostovan Y., UZOL O.
Conference on Science of Making Torque from Wind (TORQUE), Munich, Germany, 5 - 07 October 2016, vol.753
- **APPLICATION OF A FUZZY LOGIC CONTROLLER FOR SPEED CONTROL ON A SMALL-SCALE TURBOJET ENGINE**
Usenmez S., Ekinci S., UZOL O., YAVRUCUK İ.
ASME Turbo Expo: Turbine Technical Conference and Exposition, Düsseldorf, Germany, 16 - 20 June 2014
- **Active control of the tip vortex: an experimental investigation on the performance characteristics of a model turbine**
Anik E., Abdulrahim A., Ostovan Y., Mercan B., UZOL O.
5th Science of Making Torque from Wind Conference, Copenhagen, Denmark, 18 - 20 June 2014, vol.524
- **An Experimental Study on Active Flow Control Using Synthetic Jet Actuators over S809 Airfoil**
Gul M., Uzol O., Akmandor I. S.
5th Science of Making Torque from Wind Conference, Copenhagen, Denmark, 18 - 20 June 2014, vol.524
- **GPU Based Fast Free-Wake Calculations For Multiple Horizontal Axis Wind Turbine Rotors**
Turkal M., Novikov Y., Usenmez S., SEZER UZOL N., UZOL O.
5th Science of Making Torque from Wind Conference, Copenhagen, Denmark, 18 - 20 June 2014, vol.524
- **Flat Plate Film Cooling Performance Predictions by RANS Turbulence Models**
Inanli S., Gorgulu I., OKUTUCU ÖZYURT H. T. , UZOL O.
7th International Symposium on Turbulence Heat and Mass Transfer (THMT), Palermo, Italy, 24 - 27 September 2012, pp.1262-1271
- **EXPERIMENTAL INVESTIGATION OF THE EFFECTS OF WAVEFORM TIP INJECTION IN A LOW PRESSURE TURBINE CASCADE**
Mercan B., Dogan E., Ostovan Y., UZOL O.
ASME Turbo Expo 2012, Copenhagen, Denmark, 11 - 15 June 2012, pp.1473-1485
- **Direct Calculation of Entropy Generation by Solving Reynolds-Averaged Entropy Transport Equation in an Air-Cooled Turbine Cascade**
Orhan O. E. , Uzol O.
ASME Turbo Expo 2012, Copenhagen, Denmark, 11 - 15 June 2012, pp.777-783
- **Experimental and numerical investigation of a pressure swirl atomizer**
Sumer B., Erkan N., UZOL O., TUNCER İ. H.
12th International Conference on Liquid Atomization and Spray Systems, ICLASS 2012, Heidelberg, Germany, 2 - 06 September 2012
- **Investigation of unsteady wake-separated boundary layer interaction using particle-image-velocimetry**
Uzol O., Zhang X. F. , Cranstone A., Hodson H.
52nd ASME Turbo Expo 2007, Montreal, Canada, 14 - 17 May 2007, pp.1791-1803

Supported Projects

UZOL O., Project Supported by Higher Education Institutions, Köprülerde Rüzgar Etkilerinin İncelenmesi, 2010 - 2010

Citations

Total Citations (WOS):100

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