

Prof. YUSUF ÖZYÖRÜK

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International Researcher IDs

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Education Information

Undergraduate, Istanbul Technical University, Uçak Ve Uzay Bilimleri Fakültesi, Havaçılık Ve Uzay Mühendisliği Bölümü, Turkey 1984 - 1988

Foreign Languages

English, C1 Advanced

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2005 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2000 - 2005

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 1998 - 2000

Instructor, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 1997 - 1998

Advising Theses

ÖZYÖRÜK Y., Design optimization of an s-shaped subsonic intake using Bayesian approach and Bezier curves, Postgraduate, M.ATASOY(Student), 2022

ÖZYÖRÜK Y., Numerical prediction of aerodynamic stability derivatives of a projectile, Postgraduate, K.YAYLA(Student), 2021

ÖZYÖRÜK Y., Delayed detached-eddy simulation based predictions of boundary layer transition and cavity flow noise,

Doctorate, Ö.YALÇIN(Student), 2021

ÖZYÖRÜK Y., Aerodynamic and aeroacoustic investigation of scissorstail rotor configuration for a utility-class helicopter, Postgraduate, M.MELİH(Student), 2021

ÖZYÖRÜK Y., Numerical simulation of charring ablation coupled with computational fluid dynamics, Postgraduate, Ç.Ozan.(Student), 2019

ÖZYÖRÜK Y., Experimental and numerical investigation of coaxial pressure swirl injectors, Postgraduate, O.Baran(Student), 2019

ÖZYÖRÜK Y., Turbulent flow and acoustic predictions over open cavity configurations at transonic speeds, Postgraduate, S.Çoşkun(Student), 2019

ÖZYÖRÜK Y., Use of detached eddy simulation for aerodynamics and aeroacoustics of blade sections, Doctorate, K.CENGİZ(Student), 2018

ÖZYÖRÜK Y., Wind noise prediction of a car model through solutions of Navier-Stokes and Ffowcs Williams & Hawkings equations, Postgraduate, B.GÜMÜŞ(Student), 2017

ÖZYÖRÜK Y., Navier-Stokes computations of helicopter rotor flow fields, Postgraduate, A.ÖĞÜZ(Student), 2017

ÖZYÖRÜK Y., Development of a high-order Navier-Stokes solver for aeroacoustic predictions of wind turbine blade sections, Postgraduate, Ö.YALÇIN(Student), 2015

ÖZYÖRÜK Y., Development of a high-order navier-stokes solver for aeroacoustic predictions of wind turbine blade sections, Postgraduate, Ö.Yalçın(Student), 2015

ÖZYÖRÜK Y., Performance prediction of nozzleless solid propellant rocket motors, Postgraduate, A.CAN(Student), 2015

ÖZYÖRÜK Y., ALEMDAROĞLU H. N., Aerodynamic and three-degree-of-freedom flight mechanics analysis of a slender body of rectangular cross section, Postgraduate, B.TUĞCAN(Student), 2014

ÖZYÖRÜK Y., AERODYNAMIC HEATING ANALYSIS OF HIGH SPEED MISSILE AND PROJECTILE GEOMETRIES, Postgraduate, E.GÜLAY(Student), 2012

ÖZYÖRÜK Y., ALEMDAROĞLU H. N., Trajectory computation of small solid particles released and carried by flowfields of helicopters in forward flight, Postgraduate, Y.OKAN(Student), 2010

ÖZYÖRÜK Y., Development of an iterative method for liquid-propellant combustion chamber instability analysis, Postgraduate, K.CENGİZ(Student), 2010

ÖZYÖRÜK Y., ULAŞ A., One and two dimensional numerical simulation of deflagration to detonation transition phenomenon in solid energetic materials, Doctorate, B.NARİN(Student), 2010

ÖZYÖRÜK Y., A numerical investigation of helicopter flow fields including thermal effects of exhaust hot gases, Postgraduate, Z.ECE(Student), 2009

ÖZGEN S., ÖZYÖRÜK Y., Development of forward flight trim and longitudinal dynamic stability codes and their application to a UH-60 helicopter, Postgraduate, S.ÇALIŞKAN(Student), 2009

ÖZYÖRÜK Y., UNSTEADY FLOW ANALYSIS of a SOLID ROCKET MOTOR THRUST VECTOR CONTROL SYSTEM, Postgraduate, B.MIĞÇAK(Student), 2009

ÖZYÖRÜK Y., Experimental and Numerical Investigation of Onset of Combustion Instabilities in a T-burner Resonator, Postgraduate, E.KAPLAN(Student), 2008

ÖZYÖRÜK Y., Reynolds-averaged Navier-Stokes computations of jet flows emanating from turbofan exhausts, Postgraduate, S.KAYA(Student), 2008

ÖZYÖRÜK Y., Numerical determination of wave shaper effects in shaped charge jet performance, Postgraduate, O.AYISIT(Student), 2008

ÖZYÖRÜK Y., Assessment of an iterative approach for solution of frequency domain linearized Euler equations for noise propagation through turbofan jet flows, Postgraduate, İ.EVRİM(Student), 2007

ÖZYÖRÜK Y., Frequency domain computation of turbofan exhaust noise radiation, Postgraduate, Y.BARAROS(Student), 2006

ÖZYÖRÜK Y., Conceptual internal design and computational fluid dynamics analysis of a supersonic inlet, Postgraduate, M.ALEMDAROĞLU(Student), 2005

ÖZYÖRÜK Y., Parallel, Navier-Stokes computation of the flowfield of a hovering helicopter rotor, Postgraduate, M.GEÇGEL(Student), 2003

ÖZYÖRÜK Y., ALEMDAROĞLU H. N., Aerodynamic analysis of fighter aircraft F-16 with external stores, Postgraduate, H.ERHAN(Student), 2003

ÖZYÖRÜK Y., Three dimensional aerodynamic analysis of missiles by a panel method, Postgraduate, O.BAŞOĞLU(Student), 2002
ÖZYÖRÜK Y., ALEMDAROĞLU H. N., Aerodynamic analysis of a full aircraft configuration using a panel method, Postgraduate, D.FUNDA(Student), 2002
ÖZYÖRÜK Y., ALEMDAROĞLU H. N., Euler solutions for a medium range cargo aircraft, Postgraduate, C.BAHAR(Student), 2001
ÖZYÖRÜK Y., Numerical simulation of rotary wing flowfields on parallel computers, Postgraduate, E.ALPMAN(Student), 2001
ÖZYÖRÜK Y., Frequency-domain simulation of sound propagation in acoustically treated ducts with flow, Postgraduate, A.ŞİRZAI(Student), 2000

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Conjugate Analysis of Silica-Phenolic Charring Ablation Coupled with Interior Ballistics**
Alanyalioglu C. O., ÖZYÖRÜK Y.
JOURNAL OF PROPULSION AND POWER, vol.37, no.4, pp.528-543, 2021 (SCI-Expanded)
- II. **Experiences with two detached eddy simulation approaches through use of a high-order finite volume solver**
Cengiz K., ÖZYÖRÜK Y.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.92, no.8, pp.899-921, 2020 (SCI-Expanded)
- III. **Three dimensional axisymmetric sound propagation through a duct with aerosol**
Arslan E., ÇALIŞKAN M., ÖZYÖRÜK Y.
JOURNAL OF SOUND AND VIBRATION, vol.434, pp.261-272, 2018 (SCI-Expanded)
- IV. **High-order detached eddy simulation of unsteady flow around NREL S826 airfoil**
YALÇIN Ö., Cengiz K., ÖZYÖRÜK Y.
JOURNAL OF WIND ENGINEERING AND INDUSTRIAL AERODYNAMICS, vol.179, pp.125-134, 2018 (SCI-Expanded)
- V. **Numerical Analysis of One-Dimensional Sound Propagation Through a Duct Containing Water Droplets**
Arslan E., ÖZYÖRÜK Y., ÇALIŞKAN M.
JOURNAL OF COMPUTATIONAL ACOUSTICS, vol.25, no.1, 2017 (SCI-Expanded)
- VI. **Two dimensional numerical prediction of deflagration-to-detonation transition in porous energetic materials**
Narin B., ÖZYÖRÜK Y., ULAŞ A.
JOURNAL OF HAZARDOUS MATERIALS, vol.273, pp.44-52, 2014 (SCI-Expanded)
- VII. **Application of frequency-domain linearized Euler solutions to the prediction of aft fan tones and comparison with experimental measurements on model scale turbofan exhaust nozzles**
ÖZYÖRÜK Y., Tester B. J.
JOURNAL OF SOUND AND VIBRATION, vol.330, no.16, pp.3846-3858, 2011 (SCI-Expanded)
- VIII. **Numerical prediction of aft radiation of turbofan tones through exhaust jets**
Ozyoruk Y.
JOURNAL OF SOUND AND VIBRATION, vol.325, pp.122-144, 2009 (SCI-Expanded)
- IX. **Numerical simulation of fore and aft sound fields of a turbofan**
Ozyoruk Y., Ahuja V.
AIAA JOURNAL, vol.42, no.10, pp.2028-2034, 2004 (SCI-Expanded)
- X. **Frequency-domain prediction of turbofan noise radiation**
Ozyoruk Y., Alpmann E., Ahuja V., Long L.
JOURNAL OF SOUND AND VIBRATION, vol.270, pp.933-950, 2004 (SCI-Expanded)
- XI. **Euler solutions for a medium-range cargo aircraft**
Bahar C., Alemdaroglu N., Ozyoruk Y., Temel E.
JOURNAL OF AIRCRAFT, vol.40, no.2, pp.393-395, 2003 (SCI-Expanded)

- XII. **Parallel computation of forward radiated noise of ducted fans with acoustic treatment**
Ozyoruk Y.
AIAA JOURNAL, vol.40, no.3, pp.450-455, 2002 (SCI-Expanded)
- XIII. **Time-domain calculation of sound propagation in lined ducts with sheared flows**
Ozyoruk Y., Long L.
AIAA JOURNAL, vol.38, no.5, pp.768-773, 2000 (SCI-Expanded)
- XIV. **Time-domain numerical simulation of a flow-impedance tube**
Ozyoruk Y., Long L., Jones M.
JOURNAL OF COMPUTATIONAL PHYSICS, vol.146, no.1, pp.29-57, 1998 (SCI-Expanded)
- XV. **A time-domain implementation of surface acoustic impedance condition with and without flow**
Ozyoruk Y., Long L.
JOURNAL OF COMPUTATIONAL ACOUSTICS, vol.5, no.3, pp.277-296, 1997 (SCI-Expanded)
- XVI. **Multigrid acceleration of a high-resolution computational aeroacoustics scheme**
Ozyoruk Y., Long L.
AIAA JOURNAL, vol.35, no.3, pp.428-433, 1997 (SCI-Expanded)
- XVII. **Computation of sound radiating from engine inlets**
Ozyoruk Y., Long L.
AIAA JOURNAL, vol.34, no.5, pp.894-901, 1996 (SCI-Expanded)
- XVIII. **A new efficient algorithm for computational aeroacoustics on parallel processors**
Ozyoruk Y., Long L.
JOURNAL OF COMPUTATIONAL PHYSICS, vol.125, no.1, pp.135-149, 1996 (SCI-Expanded)

Articles Published in Other Journals

- I. **Reprint of: Assessment of a frequency-domain linearised Euler solver for turbofan aft radiation predictions and comparison with measurements**
ÖZYÖRÜK Y., Tester B. J.
Procedia IUTAM, vol.1, pp.153-162, 2010 (Scopus)
- II. **EXPERIMENTAL STUDY OF A T-BURNER RESONATOR**
Kaplan E., Yazici B., Ak M. A., ÖZYÖRÜK Y.
INTERNATIONAL JOURNAL OF ENERGETIC MATERIALS AND CHEMICAL PROPULSION, vol.8, no.3, pp.173-182, 2009 (ESCI)
- III. **Numerical analysis of noise radiation from a turbofan exhaust cowl with an extended liner in flight**
ÖZYÖRÜK Y., Lidoine S.
14th AIAA/CEAS Aeroacoustics Conference (29th AIAA Aeroacoustics Conference), 2008 (Scopus)
- IV. **Experiences in the practical application of Computational Aeroacoustics**
Morris P. J., Long L. N., Bangalore A., Chyczewski T., Lockard D. P., Ozyoruk Y.
American Society of Mechanical Engineers, Fluids Engineering Division (Publication) FED, vol.238, pp.465-472, 1996 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **EFFECTS OF THE REACTION MECHANISM ON HEAT RELEASE FOR THE PREDICTION OF THERMOACOUSTIC INSTABILITIES IN LIQUID ROCKET ENGINES**
Öztürkmen M. O., Özyörük Y.
12th Ankara International Aerospace Conference, Ankara, Turkey, 13 September 2023
- II. **AERODYNAMIC OPTIMIZATION OF INLET DESIGN FOR HIGH BYPASS RATIO TURBOFAN**
Kaplan Y., Özyörük Y.
12th Ankara International Aerospace Conference, Ankara, Turkey, 13 September 2023

- III. **NUMERICAL INVESTIGATION OF GENERALIZED K-W TURBULENCE MODEL FOR COMPRESSIBLE DUCT FLOWS**
Yahşi Ö. F., Yılmaz M. H., Özyörük Y., Günaydınhoğlu E.
12th Ankara International Aerospace Conference, Ankara, Turkey, 13 September 2023
- IV. **Stability Characteristics of a Single Injector Combustor through Acoustic Solutions with Large Eddy Simulated Heat Sources**
Öztürkmen M. O., ÖZYÖRÜK Y.
10th European Conference for Aerospace Sciences, Lozan, Switzerland, 09 July 2023
- V. **Numerical Optimization of High Convoluted Serpentine Air Inlet Duct Using Response Surface Methodology**
YAHŞI Ö. F., Yılmaz M. H., Günaydınhoğlu E., ÖZYÖRÜK Y.
AIAA Aviation Forum 2023, San Diego, United States Of America, 12 June 2023
- VI. **Investigation of a Solution Approach to Quadratic Eigenvalue Problem for Thermoacoustic Instabilities**
Öztürkmen M. O., ÖZYÖRÜK Y.
AIAA Science and Technology Forum and Exposition, AIAA SciTech Forum 2022, California, United States Of America, 3 - 07 January 2022
- VII. **Transitional DDES Study over a Circular Cylinder and an Airfoil**
YALÇIN Ö., Cengiz K., Wein L., ÖZYÖRÜK Y., Seume J.
13th International ERCOFTAC Symposium, Rhodes, Greece, 15 September 2021
- VIII. **PREDICTION OF LINEAR COMBUSTION INSTABILITIES IN ROCKET ENGINES,**
Öztürkmen M. O., ÖZYÖRÜK Y.
12th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Turkey, 1 - 03 September 2021
- IX. **Delayed Detached-Eddy Simulations of Transonic Cavity Noise**
YALÇIN Ö., ÖZYÖRÜK Y.
AIAA AVIATION FORUM 2021 - AEROACOUSTICS, United States Of America, 02 August 2021
- X. **Main Rotor - Tail Rotor Interactional Noise**
Atalay M. M., Şenipek M., Yücekayalı A., ÖZYÖRÜK Y.
8th Asian/Australian Rotorcraft Forum, 30 October - 02 November 2019
- XI. **Investigation of Air Core Characteristics of a Pressure Swirl Injector Using Two Different Volume of Fluid Methods**
Öztürkmen M. O., ÖZYÖRÜK Y.
ECCOMAS MSF 2019 4th International Conference on Multi-Scale Computational Methods for Solids and Fluids, Bosnia-Herzegovina, 18 - 20 September 2019
- XII. **Aerodynamic Performance Analyses of Iced Wind Turbine Blade Profile with Transitional DDES**
YALÇIN Ö., YIRTICI Ö., ÖZYÖRÜK Y., TUNCER İ. H.
10th Ankara International Aerospace Conference, 18 - 20 September 2019
- XIII. **Unsteady Reynolds-Averaged Navier-Stokes and Detached Eddy Simulations of Transonic Cavity Flows**
Coşkun S., ÖZYÖRÜK Y.
10th Ankara International Aerospace Conference, 18 - 20 September 2019
- XIV. **Comprehensive Rotorcraft Aeroacoustics: Investigation of Surface Pressure Distribution Methods for Rotor Noise**
Şenipek M., Yücekayalı A., Ortakaya Y., ÖZYÖRÜK Y.
45th European Rotorcraft Forum, 17 - 20 September 2019
- XV. **Prediction of Rocket Jet Noise by Empirical and Numerical Approaches**
ÖZYÖRÜK Y., Musa Onur Ö.
10th Ankara International Aerospace Conference, 18 - 20 September 2019
- XVI. **Acoustic characterization of a rocket combustion chamber**
ÖZYÖRÜK Y., Demirel G.
10th Ankara International Aerospace Conference, 18 - 20 September 2019

- XVII. Boundary Layer Transition Prediction over Wind Turbine Blade Profile through Detached Eddy Simulation**
YALÇIN Ö., ÖZYÖRÜK Y.
31st International Conference on Parallel Computational Fluid Dynamics, 14 - 17 May 2019
- XVIII. Flow and Noise Prediction of Doors-on M219 Cavity through Improved Delayed Detached Eddy Simulations**
Coşkun S., ÖZYÖRÜK Y.
31st International Conference on Parallel Computational Fluid Dynamics, 14 - 17 May 2019
- XIX. Fully transient conjugate analysis of silica-phenolic charring ablation coupled with interior ballistics**
Alanyaloğlu Ç. O., ÖZYÖRÜK Y.
AIAA Propulsion and Energy Forum and Exposition, 2019, Indiana, United States Of America, 19 - 22 August 2019
- XX. Experimental and numerical investigation of coaxial pressure swirl injectors**
Baran O., Sümer B., ÖZYÖRÜK Y.
AIAA Scitech Forum, 2019, California, United States Of America, 7 - 11 January 2019
- XXI. Examination of flow field inside grain port and grain regression characteristics of a nozzleless solid propellant rocket motor**
Özer A. C., Sümer B., ÖZYÖRÜK Y.
AIAA Propulsion and Energy Forum and Exposition, 2019, Indiana, United States Of America, 19 - 22 August 2019
- XXII. TACO: Helicopter noise predictions**
Yücekayalı A., Şenipek M., Ortakaya Y., ÖZYÖRÜK Y.
7th Asian/Australian Rotorcraft Forum, ARF 2018, Seogwipo City, Jeju Island, South Korea, 30 October - 01 November 2018
- XXIII. Delayed Detached-eddy Simulation around NREL S826 Blade Section for Transition Prediction**
YALÇIN Ö., CENGİZ K., ÖZYÖRÜK Y.
14th EAWE PhD Seminar, BRÜKSEL, Belgium, 18 - 20 September 2018
- XXIV. Noise prediction of a transonic cavity flow via shear-layer-adapted delayed detached-eddy simulation**
YALÇIN Ö., Cengiz K., ÖZYÖRÜK Y.
AIAA/CEAS Aeroacoustics Conference, 2018, Georgia, United States Of America, 25 - 29 June 2018
- XXV. Vehicle wind noise prediction through solutions of Navier-Stokes and Ffowcs Williams Hawkings equations**
Gümüş B., Güneş E., ÖZYÖRÜK Y.
9th Ankara International Aerospace Conference, Ankara, Turkey, 20 - 22 September 2017
- XXVI. Shear-layer-adapted delayed detached-eddy simulation of a transonic open cavity flow**
YALÇIN Ö., Cengiz K., ÖZYÖRÜK Y.
9th Ankara International Aerospace Conference, Ankara, Turkey, 20 - 22 September 2017
- XXVII. CFD analysis of helicopter rotors in forward flight**
Ali Oğuz Y., ÖZYÖRÜK Y.
9th Ankara International Aerospace Conference, Ankara, Turkey, 20 - 22 September 2017
- XXVIII. High-order detached eddy simulation of unsteady flow around NREL S826 airfoil**
YALÇIN Ö., Cengiz K., ÖZYÖRÜK Y.
WINERCOST'xx17-The International Conference on Wind Harvesting 2017, 20 - 21 April 2017
- XXIX. Noise predictions of helicopter rotors in hover and forward flight**
ÖZYÖRÜK Y., Ünal A., Yüksel A. O.
23rd AIAA/CEAS Aeroacoustics Conference, 2017, Colorado, United States Of America, 5 - 09 June 2017
- XXX. Application of the universal expression for erosive burning to Nozzleless solid propellant Rocket motors**
Özer A. C., ÖZYÖRÜK Y.
53rd AIAA/SAE/ASEE Joint Propulsion Conference, 2017, Atlanta, Georgia, 10 - 12 July 2017
- XXXI. Numerical study of mean flow effect on sound propagation through an aerosol**
Arslan E., ÇALIŞKAN M., ÖZYÖRÜK Y.

172nd Meeting of the Acoustical Society of America, Hawaii, United States Of America, 28 November - 02 December 2016, vol.29

- XXXII. **Askı uçuşundaki helikopter rotorunun akış alanı hesaplamaları**
YÜKSEL A. O., ÖZYÖRÜK Y.
VI. Ulusal Havacılık ve Uzay Konferansı, Kocaeli, Turkey, 28 - 30 September 2016
- XXXIII. **Validation of an in-duct to far-field beamformer method for predicting far-field fan broadband noise**
Tester B. J., ÖZYÖRÜK Y., Sutliff D. L., Bozak R. F.
22nd AIAA/CEAS Aeroacoustics Conference, 2016, Lyon, France, 30 May - 01 June 2016
- XXXIV. **Implementation of finite difference method in frequency domain for solving 1 D sound propagation problem in air containing water droplets**
ARSLAN E., ÖZYÖRÜK Y., ÇALIŞKAN M.
The 12th International Conference on Theoretical and Computational Acoustics 2015, Hangzhou, Zhejiang, China, 11 - 16 October 2015
- XXXV. **HIGH ORDER NUMERICAL SIMULATIONS FOR AEROACOUSTIC PURPOSES OF WIND TURBINE BLADE SECTIONS**
YALÇIN Ö., ÖZYÖRÜK Y.
ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Turkey, 10 - 12 September 2015
- XXXVI. **High order numerical simulations for aeroacoustic purposes of wind turbine blade sections**
YALÇIN Ö., ÖZYÖRÜK Y.
AIAC'2015 Ankara International Aerospace Conference, Ankara, Turkey, 10 - 12 September 2015
- XXXVII. **Performance prediction of nozzleless solid propellant rocket motors**
ÖZER A. C., ÖZYÖRÜK Y.
AIAC'2015 Ankara International Aerospace Conference, Ankara, Turkey, 10 - 12 September 2015
- XXXVIII. **Zonal detached eddy simulation using a high order low dissipation low dispersion computational method for aeroacoustic purposes**
CENGİZ K., ÖZYÖRÜK Y.
AIAC'2015 Ankara International Aerospace Conference, Ankara, Turkey, 10 - 12 September 2015
- XXXIX. **NUMERICAL INVESTIGATION OF SPINNING MODE TRANSMISSION THROUGH VARIABLE AREA ANNULAR DUCTS WITH FLOW**
ÖZYÖRÜK Y., Coupland J., Tester B. J.
22nd International Congress on Sound and Vibration (ICSV), Florence, Italy, 12 - 16 July 2015
- XL. **PREDICTING FAR-FIELD BROADBAND NOISE LEVELS FROM IN-DUCT PHASED ARRAY MEASUREMENTS**
Tester B. J., ÖZYÖRÜK Y., Sutliff D. L., Bozak R. F.
22nd International Congress on Sound and Vibration (ICSV), Florence, Italy, 12 - 16 July 2015
- XLI. **AKIŞ KAYNAKLI RÜZGAR TÜRBİNİ GÜRÜLTÜSÜ HESAPLAMALARI İÇİN YÜKSEK MERTEBELİ DURAĞAN OLMAYAN NAVIER STOKES ÇÖZÜCÜSÜNÜN GELİŞTİRİLMESİ**
YALÇIN Ö., ÖZYÖRÜK Y.
ULUSAL HAVACILIK VE UZAY KONFERANSI, Kayseri, Turkey, 8 - 10 September 2014
- XLII. **Predicting far-field broadband noise levels from in-duct phased array measurements**
Tester B. J., ÖZYÖRÜK Y.
20th AIAA/CEAS Aeroacoustics Conference 2014, Atlanta, GA, United States Of America, 16 - 20 June 2014
- XLIII. **A Helmholtz-type numerical simulation of thermo-acoustic instabilities in a 3-D Rijke tube**
Cengiz K., ÖZYÖRÜK Y.
49th AIAA/ASME/SAE/ASEE Joint Propulsion Conference, San Jose, CA, United States Of America, 14 - 17 July 2013
- XLIV. **Development of a Navier Stokes Solver for high fidelity simulation of wind turbine noise**
CENGİZ K., ÖZYÖRÜK Y.
AIAC'2013 Ankara International Aerospace Conference, Ankara, Turkey, 11 - 13 September 2013
- XLV. **Application of frequency-domain linearised Euler solutions to the prediction of aft fan tones and comparison with experimental measurements**
ÖZYÖRÜK Y., Tester B. J.
17th AIAA/CEAS Aeroacoustics Conference 2011 (32nd AIAA Aeroacoustics Conference), Portland, OR, United

States Of America, 5 - 08 June 2011

- XLVI. **Analysis of helicopter flow fields in forward flight including thermal effects of exhaust gases**
GÜRSOY Z. E., ETİZ U., ÖZYÖRÜK Y.
AIAC'2011 Ankara International Aerospace Conference, Ankara, Turkey, 14 - 16 September 2011
- XLVII. **Development of a linear combustion instability tool for 3 D liquid propellant engine geometries**
CENGİZ K., ÖZYÖRÜK Y.
AIAC'2011 Ankara International Aerospace Conference, Ankara, Turkey, 14 - 16 September 2011
- XLVIII. **Algorithmic improvements to a frequency-domain linearized Euler solver for turbomachinery noise radiation**
ÖZYÖRÜK Y.
16th AIAA/CEAS Aeroacoustics Conference (31st AIAA Aeroacoustics Conference), Stockholm, Sweden, 7 - 09 June 2010
- XLIX. **Assessment of a frequency-domain linearised Euler solver for turbofan aft radiation predictions and comparison with measurements**
ÖZYÖRÜK Y., Tester B. J.
IUTAM Symposium on Computational Aero-Acoustics for Aircraft Noise Prediction, Southampton, United Kingdom, 29 - 31 March 2010, vol.6, pp.153-162
- L. **Effects of mean flow and temperature on acoustic liner performance in dual stream flow ducts**
ÖZYÖRÜK Y., Tester B. J.
15th AIAA/CEAS Aeroacoustics Conference (30th AIAA Aeroacoustics Conference), Miami, FL, United States Of America, 11 - 13 May 2009
- LI. **Performance evaluation of two parallel, direct sparse solvers for an aeroacoustic propagation model**
ÖZYÖRÜK Y., Dizemen E.
Parallel Computational Fluid Dynamics, Parallel CFD 2007, Antalya, Turkey, 21 - 24 May 2007, pp.379-384
- LII. **Application of parallel processing to numerical modeling of two-phase deflagration-to-detonation (DDT) phenomenon**
Bekir B., ÖZYÖRÜK Y., ULAŞ A.
Parallel Computational Fluid Dynamics, Parallel CFD 2007, Antalya, Turkey, 21 - 24 May 2007, pp.123-130
- LIII. **Influence of mean flow gradients on fan exhaust noise predictions**
Tester B. J., Gabard G., ÖZYÖRÜK Y.
14th AIAA/CEAS Aeroacoustics Conference (29th AIAA Aeroacoustics Conference), Vancouver, Canada, 5 - 07 May 2008
- LIV. **Lagrangian hydrocode formulation for large deformation problems and methods to prevent volumetric locking of triangular elements**
KONOKMAN H. E., KAYRAN A., ÖZYÖRÜK Y.
AIAC'2007 Ankara International Aerospace Conference, Ankara, Turkey, 10 - 13 September 2007
- LV. **1 D two phase modeling of deflagration to detonation transition DDT phenomenon in porous energetic materials**
NARİN B., ÖZYÖRÜK Y., ULAŞ A.
AIAC'2007 Ankara International Aerospace Conference, Ankara, Turkey, 10 - 12 September 2007
- LVI. **A frequency domain linearized Euler solver for turbomachinery noise propagation and radiation**
ÖZYÖRÜK Y., Dizemeny E., Kayay S., Aktürkz A.
13th AIAA/CEAS Aeroacoustics Conference (28th AIAA Aeroacoustics Conference), Rome, Italy, 21 - 23 May 2007
- LVII. **Simulations of Sound Radiation from Turbofan Exhausts**
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