

Asst. Prof. Baha ZAFER

Personal Information

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Address: Mühendislik Fakültesi Makina Mühendisliği Bölümü Avcılar / İstanbul

Education Information

Post Doctorate, The Florida State University, Math And Computer Science, United States Of America 2014 - 2016

Doctorate, Istanbul Technical University, Uçak-Uzay Mühendisliği , Mühendislikte İleri Teknolojiler, Turkey 2005 - 2011

Postgraduate, Istanbul Technical University, Uçak-Uzay Mühendisliği , Mühendislikte İleri Teknolojiler, Turkey 2002 - 2005

Undergraduate, Istanbul Technical University, Uçak-Uzay Mühendisliği , Turkey 1997 - 2002

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, PREDICTION METHODS FOR HELICOPTER ROTOR BLADE NOISE AND FLOW-SOUND INTERACTIONS IN NOZZLE FLOW, Istanbul University, Uçak Uzay Mühendisliği, Uçak Uzay Mühendisliği, 2012

Postgraduate, SECOND ORDER ASYMPTOTICS FOR PROPELLER NOISE AND APPLICATION TO HELICOPTER ROTOR BLADES, Istanbul Technical University, Uçak Uzay Mühendisliği, Uçak Uzay Mühendisliği, 2005

Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Thermodynamics, Heat and Mass Transfer, Aeronautical and Space Engineering, Aeronautical Engineering , Flight Sciences, Aerodynamics, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Istanbul University, Mühendislik Fakültesi, Makina Mühendisliği, 2018 - Continues

Assistant Professor, Istanbul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2018 - 2018

Assistant Professor, Istanbul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2012 - 2018

Research Assistant, Istanbul Technical University, Uçak - Uzay Mühendisliği Fakültesi, Uzay Mühendisliği, 2002 - 2012

Courses

Termodinamik, Undergraduate, 2016 - 2017

Mühendislikte Hesaplamalı Yöntemler, Postgraduate, 2016 - 2017, 2013 - 2014

Akustik, Undergraduate, 2016 - 2017, 2013 - 2014, 2012 - 2013
Isıl Sistem Tasarımı, Postgraduate, 2013 - 2014
Hidrolik Makinalar, Undergraduate, 2014 - 2015, 2012 - 2013
Beyin Ağları, Doctorate, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A predictive model for wafer probe burn phenomenon**
Zafer B., Tunaboğlu B.
APPLIED THERMAL ENGINEERING, vol.98, pp.610-616, 2016 (SCI-Expanded)
- II. **Aeroacoustics investigation of unsteady incompressible cavity flow**
Zafer B., Cosgun F.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, no.3, pp.666-677, 2016 (SCI-Expanded)
- III. **Experimental characterization of wafer probe burn**
Zafer B., Tunaboğlu B.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.5, pp.3513-3523, 2016 (SCI-Expanded)
- IV. **A novel nonreflecting boundary condition for unsteady flow**
Zafer B., Delale C. F.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.74, no.1, pp.59-72, 2014 (SCI-Expanded)
- V. **A Refinement of Asymptotic Predictions and Full Numerical Solution of Helicopter Rotor Noise in the Far Field**
ZAFER B., Delale C. F., Aslan A. R.
INTERNATIONAL JOURNAL OF AEROACOUSTICS, vol.3-4, pp.521-530, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Helikopter Pervane Gürültüsü ve Lüle İçindeki Akış-Ses Etkileşiminin İncelenmesi**
ZAFER B., Delale C. F.
İTÜ Dergisi / d – mühendislik, vol.12, pp.24-25, 2012 (Peer-Reviewed Journal)
- II. **Computational and Asymptotic Methods in Aeroacoustic with Application**
ZAFER B., Delale C. F., Aslan A. R.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.1, pp.1-25, 2011 (ESCI)

Books & Book Chapters

- I. **Yaşamın Müziği: Genomu Aşan Biyoloji**
ZAFER B.
Papersense, İstanbul, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **AEROACOUSTIC INVESTIGATION OF UNSTEADY LOW MACH NUMBER CAVITY FLOW**
ZAFER B., COSGUN F.
ECCOMAS Congress 2016, Girit, Greece, 5 - 10 June 2016, pp.237-245
- II. **Aeroacoustics of Open Cavities with Modified Geometry for Low Mach Number Flow**
Yenigelen E., ZAFER B.

IMECE 2015, Houston, United States Of America, 24 - 27 September 2015, pp.112-118

- III. **Sesaltı Kavite – Cisim Etkileşiminin Aeroakustik Analizi**
Konan O., ZAFER B.
19. Ulusal Mekanik Konferansı,, Trabzon, Turkey, 24 - 28 August 2015, pp.112-116
- IV. **Investigation of Airfoil Aeroacoustics with Blowing Control Mechanism**
Gürsoy S., ZAFER B.
International Symposium on Sustainable Aviation, İstanbul, Turkey, 31 May - 03 June 2015, pp.112-118
- V. **A Novel Non-Reflecting Boundary Conditions For Hyperbolic Systems**
ZAFER B., Delale C. F.
Ankara International Aerospace Conference, Ankara, Turkey, 11 - 13 September 2013, pp.124-132
- VI. **Wafer test probe burn modeling and characterization**
Zafer B., Vishkasouh M. H., Tunaboğlu B.
14th International Conference on Thermal, Mechanical and Multi-Physics Simulation and Experiments in Microelectronics and Microsystems (EuroSimE), Wrocław, Poland, 14 - 17 April 2013
- VII. **Wafer test probe burn modeling**
ZAFER B., Tunaboğlu B.
NanoTrVIII, Ankara, Turkey, 1 - 04 June 2012, pp.48-55
- VIII. **Bir Boyutlu Ses Dalgalarının Lüle Akışlarına Etkisi**
ZAFER B., Delale C. F.
III. Ulusal Havacılık ve Uzay Konferansı, Eskişehir, Turkey, 1 - 04 September 2010, pp.12-19
- IX. **Asymptotic Prediction and Full Numerical Solution of Helicopter Rotor Noise in the Far-Field Aeroacoustics**
ZAFER B., Delale C. F., Aslan A. R., Şen A. L.
Ankara International Aerospace Conference (AIAC), Turkey, 1 - 04 September 2007, pp.67-74
- X. **Second Order Asymptotics For Propeller Noise And Application To Helicopter Rotor Blades**
ZAFER B., Delale C. F., Aslan A. R.
Ankara International Aerospace Conference (AIAC), Turkey, 1 - 04 October 2005, pp.45-55
- XI. **Helikopter Pervane Palasının Aerodinamik Performans Analizi**
ZAFER B., Meriç A.
12. Ulusal Mekanik Konferansı, Gaziantep, Turkey, 1 - 04 September 2003, pp.12-18

Other Publications

- I. **Roger Penrose’da Matematiksel Platonculuk**
ZAFER B.
Other, pp.63-105, 2015
- II. **Mezopotamya’da Doğa Felsefesi: Matematik ve Astronomi, Doğu-Batı Dergisi**
ZAFER B.
Other, pp.51-76, 2012
- III. **Gelecek Belirli Mi? Doğa Tasavvurumuzdaki Değişimler, Kutadgu Bilig Felsefe Bilim Araştırmaları Dergisi**
ZAFER B.
Other, pp.169-185, 2008

Supported Projects

ZAFER B., EU Framework Program Project, Probe burn phenomena: Predictive modeling and characterization for high power wafer test applications, 2010 - 2016

ZAFER B., TUBITAK Project, Düşük Gerilimli Açma Anahtarındaki Dinamik Arkın Sayısal Modellenmesi, 2013 - 2014

ZAFER B., EU Framework Program Project, Thermal Management of Li-Polymer Battery Pack Modules for Efficiency Improvement to be Used in Green Transportation, 2013 - 2014
ZAFER B., Project Supported by Other Private Institutions, Rotor aeroakustiđi Analizi, 2012 - 2013
ZAFER B., TUBITAK Project, Gemiler için geliştirilmiş yükleme yazılımı, 2011 - 2011
ZAFER B., Project Supported by Other Official Institutions, Panel Kalorifer Isı Verimliliđinin Arttırılması, 2010 - 2011

Metrics

Publication: 22
Citation (WoS): 6
Citation (Scopus): 9
H-Index (WoS): 2
H-Index (Scopus): 2