

## Personal Information

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## Education Information

Doctorate, Cukurova University, Mhendislik Fakltesi, Makina Mh., Turkey 2019 - 2023

Postgraduate, Cukurova University, Mhendislik Fakltesi, Makine Mhendislięi, Turkey 2017 - 2019

Undergraduate Double Major, Cukurova University, Mhendislik-Mimarlık Fakltesi, Otomotiv Mhendislięi, Turkey 2014 - 2018

Undergraduate, Cukurova University, Mhendislik-Mimarlık Fakltesi, Makine Mhendislięi, Turkey 2012 - 2017

## Foreign Languages

English, C1 Advanced

## Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Aeronautical and Space Engineering, Aeronautical Engineering , Flight Sciences, Aerodynamics, Engineering and Technology

## Academic Titles / Tasks

Research Assistant, Cukurova University, Mhendislik Fakltesi, Makina Mh., 2018 - Continues

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Comparison and evaluation of machine learning approaches for estimating heat index map in Trkiye**  
Tmse S., Bilgili M., Őekertekin A., nal Ő., Őahin B.  
NEURAL COMPUTING AND APPLICATIONS, vol.35, pp.15721-15742, 2023 (SCI-Expanded)
- II. **Influence of uniform magnetic field on hydrothermal characteristics and entropy production in a nanofluid filled rectangular grooved channel**  
Tmse S., Őahin B.  
CASE STUDIES IN THERMAL ENGINEERING, vol.45, pp.1-20, 2023 (SCI-Expanded)
- III. **Numerical Investigation of Magnetohydrodynamic Forced Convection and Entropy Production of Ferrofluid Around a Confined Cylinder Using Wire Magnetic Sources**

- Tümse S., Zontul H., Hamzah H., Sahin B.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, pp.1-30, 2022 (SCI-Expanded)
- IV. **The impact of the ground on flow structure and aerodynamic characteristics of a double delta wing**  
Tasci M. O., TÜRME S., Sahin B.  
AEROSPACE SCIENCE AND TECHNOLOGY, vol.130, 2022 (SCI-Expanded)
- V. **Vortical flow characteristics of a slender delta wing in ground effect**  
Tasci M. O., TÜRME S., Sahin B.  
OCEAN ENGINEERING, vol.261, 2022 (SCI-Expanded)
- VI. **Experimental Investigation of Ground Effect on the Vortical Flow Structure of a 40 degrees Swept Delta Wing**  
TÜRME S., Karasu I., Sahin B.  
JOURNAL OF AEROSPACE ENGINEERING, vol.35, no.4, 2022 (SCI-Expanded)
- VII. **Estimation of aerodynamic coefficients of a non-slender delta wing under ground effect using artificial intelligence techniques**  
TÜRME S., BİLGİLİ M., ŞAHİN B.  
NEURAL COMPUTING & APPLICATIONS, vol.34, no.13, pp.10823-10844, 2022 (SCI-Expanded)
- VIII. **Estimation of wind turbine output power using soft computing models**  
TÜRME S., İLHAN A., BİLGİLİ M., Sahin B.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.44, no.2, pp.3757-3786, 2022 (SCI-Expanded)
- IX. **Particle Image Velocimetry Investigation of the Flow for the Curved Type Wind Turbine Shroud**  
İLHAN A., TÜRME S., TAŞÇI M., BİLGİLİ M., ŞAHİN B.  
JOURNAL OF APPLIED FLUID MECHANICS, vol.15, no.2, pp.373-385, 2022 (SCI-Expanded)
- X. **Near-surface particle image velocimetry measurements over a yawed slender delta wing**  
Karasu I., TÜRME S., TAŞÇI M., ŞAHİN B., AKILLI H.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.235, no.16, pp.2466-2478, 2021 (SCI-Expanded)
- XI. **Effect of Growth in Turbine Size on Rotor Aerodynamic Performance of Modern Commercial Large-Scale Wind Turbines**  
BİLGİLİ M., TÜRME S., Tontu M., ŞAHİN B.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.46, no.8, pp.7185-7195, 2021 (SCI-Expanded)
- XII. **The impact of the pitching motion on the structure of the vortical flow over a slender delta wing under sideslip angle**  
Tasci M. O., Pektaş M. C., TÜRME S., Karasu I., ŞAHİN B., AKILLI H.  
JOURNAL OF VISUALIZATION, vol.24, no.3, pp.437-442, 2021 (SCI-Expanded)
- XIII. **Effect of ground on flow characteristics and aerodynamic performance of a non-slender delta wing**  
TÜRME S., Tasci M. O., Karasu I., ŞAHİN B.  
AEROSPACE SCIENCE AND TECHNOLOGY, vol.110, 2021 (SCI-Expanded)
- XIV. **Flow analyses of diffuser augmented wind turbines**  
İLHAN A., ZONTUL H., TÜRME S., BİLGİLİ M., ŞAHİN B.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2021 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Lift Coefficient Estimation of a Delta Wing Under the Ground Effect Using Artificial Neural Network**  
TÜRME S., BİLGİLİ M., ŞAHİN B.  
Çukurova Üniversitesi Mühendislik Fakültesi Dergisi, vol.36, 2021 (Peer-Reviewed Journal)
- II. **The Influence of Perturbation Motion Over a Slender Delta Wing Under Sideslip Angle**  
Taşçı M. O., Tümse S., Şahin B., Karasu İ., Akıllı H.  
Niğde Üniversitesi Mühendislik Bilimleri Dergisi, vol.10, no.1, pp.393-403, 2021 (Peer-Reviewed Journal)

- III. **The Turbulence Intensity Effect on the Flow Characteristics and Aerodynamics of a Circular Cylinder**  
KARASU İ., TÜMSE S.  
Çukurova Üniversitesi Mühendislik Fakültesi Dergisi, 2021 (Peer-Reviewed Journal)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Cross-Flow PIV Measurements of the Ground Effect on Flow Characteristics of a Slender Delta Wing**  
Taşçı M. O., TÜMSE S., ŞAHİN B.  
INTERNATIONAL CONFERENCE ON ENGINEERING, NATURAL AND APPLIED SCIENCE 2021, Osmaniye, Turkey, 24 November 2021
- II. **Investigation of Ground Effect on Flow Structures over 70 Swept Delta Wing by Flow Visualization Method**  
Taşçı M. O., TÜMSE S., ŞAHİN B.  
23rd Congress on Thermal Science and Technology, Gaziantep, Turkey, 08 September 2021
- III. **Estimation of wind power output and rotational speed of a turbine by using Adaptive Neuro-Fuzzy Interference System**  
Tümse S., Bilgili M., Şahin B.  
5th International GAP MATHEMATICS-ENGINEERING-SCIENCE AND HEALTH SCIENCES , Şanhurfa, Turkey, 4 - 06 December 2020, pp.213-225
- IV. **Prediction of lift forces of a non-slender delta wing under ground effect using Artificial Neural Network**  
Tümse S., Bilgili M., Şahin B.  
5th INTERNATIONAL GAP MATHEMATICS-ENGINEERING-SCIENCE AND HEALTH SCIENCES, Şanlıurfa, Turkey, 4 - 06 December 2020, pp.65
- V. **The influence of a transversely and coaxially oriented wire on the location of vortex breakdown**  
Taşçı M. O., Tümse S., Şahin B., Karasu İ., Akıllı H.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019, pp.471-480
- VI. **The impact of the ground on the velocity fluctuations and the breakdown of leading-edge vortices on a 40° swept delta wing**  
TÜMSE S., TAŞÇI M. O., ŞAHİN B.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019
- VII. **The effect of the ground on the lift coefficient and vortical flow structure of a non-slender delta wing**  
TÜMSE S., TAŞÇI M. O., ŞAHİN B., KARASU İ.  
22nd Congress on Thermal Science and Technology, Kocaeli, Turkey, 11 - 14 September 2019, vol.2, pp.1461-1470

### **Supported Projects**

ÖZKAN G. M., ŞAHİN B., TÜMSE S., Project Supported by Higher Education Institutions, Investigation of Flow Characteristics and Heat Transfer Performance in Heat Exchangers with Magnetic Field Effect, 2021 - 2023  
ÖZKAN G. M., ZONTUL H., TÜMSE S., ŞAHİN B., Project Supported by Higher Education Institutions, Oluklu dikdörtgen kanallarda konvektif ısı transferinin ve akış hidrodinamiğinin araştırılması, 2021 - 2023  
ŞAHİN B., TÜMSE S., Project Supported by Higher Education Institutions, Ground Effect on the Aerodynamic Parameters and Flow Characteristics of a Nonslender Delta Wing, 2019 - 2020

### **Metrics**

Publication: 24

Citation (WoS): 4

Citation (Scopus): 7

H-Index (WoS): 1

H-Index (Scopus): 2