

## Asst. Prof. UĞUR KILIÇ

### Personal Information

**Email:** ugur.kilic@erzincan.edu.tr

**Web:** <https://avesis.ebyu.edu.tr/ukilic>

### International Researcher IDs

ScholarID: ws62JYgAAAAJ

ORCID: 0000-0002-1576-8042

Publons / Web Of Science ResearcherID: A-7069-2018

ScopusID: 57191338888

Yoksis Researcher ID: 22744

### Education Information

Doctorate, Eskişehir Technical University, Faculty Of Aeronautical And Space Sciences, Department Of Aviation Electrics And Electronics, Turkey 2016 - 2021

Postgraduate, Firat University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2013 - 2016

Undergraduate, Firat University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2008 - 2013

### Research Areas

Electrical and Electronics Engineering, Aeronautical and Space Engineering

### Academic Titles / Tasks

Assistant Professor, Erzincan Binali Yildirim University, Ali Cavit Çelebioğlu Sivil Havacılık Yüksekokulu, Havacılık Elektrik ve Elektronik Bölümü, 2022 - Continues

### Academic and Administrative Experience

Deputy Head of Department, Erzincan Binali Yildirim University, Ali Cavit Çelebioğlu Sivil Havacılık Yüksekokulu, Havacılık Elektrik Ve Elektronik Bölümü, 2023 - Continues

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

#### I. Machine Learning-Aided Synthetic Air Data System for Commercial Aircraft

Kilic U., Cam O., Can E.

Journal of Aerospace Engineering, vol.37, no.6, 2024 (SCI-Expanded)

#### II. A new high-frequency multilevel inverter effecting cables weight and energy efficiency of aircraft

Can E., Kılıç U.

Aircraft Engineering and Aerospace Technology, vol.96, no.3, pp.458-464, 2024 (SCI-Expanded)

- III. **Deep learning-based forecasting modeling of micro gas turbine performance projection: An experimental approach**  
Kılıç U., Villareal-Valderrama F., Ayar M., Ekici S., Amezcua-Brooks L., Karakoc T. H.  
Engineering Applications of Artificial Intelligence, vol.130, 2024 (SCI-Expanded)
- IV. **Digital twin for Electronic Centralized Aircraft Monitoring by machine learning algorithms**  
Kılıç U., Yalın G., Çam Ö.  
Energy, vol.283, 2023 (SCI-Expanded)
- V. **A comparison of the environmental impact of turboprop and turbofan-powered aircraft**  
Kılıç U.  
Aircraft Engineering and Aerospace Technology, vol.95, no.7, pp.1092-1098, 2023 (SCI-Expanded)
- VI. **Performance based analysis for the Ankara-London route in terms of emissions and fuel consumption of different combinations of aircraft/engine: An IMPACT application**  
Ekici S., Ayar M., Kılıç U., Karakoc T. H.  
Journal of Air Transport Management, vol.108, 2023 (SSCI)
- VII. **Sensor fault detection and reconstruction system for commercial aircrafts**  
Kılıç U., Ünal G.  
Aeronautical Journal, vol.126, no.1299, pp.889-905, 2022 (SCI-Expanded)
- VIII. **Aircraft air data system fault detection and reconstruction scheme design**  
Kılıç U., Ünal G.  
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.93, no.6, pp.1104-1114, 2021 (SCI-Expanded)
- IX. **The development of a novel knowledge-based weaning algorithm using pulmonary parameters: a simulation study**  
Güler H., Kılıç U.  
MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.56, no.3, pp.373-384, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Ac-Dc multi pulse converter for dc power distribution system in aircraft**  
Can E., Kılıç U.  
INTERNATIONAL JOURNAL OF MODELLING AND SIMULATION, vol.44, no.3, pp.115-125, 2023 (ESCI)
- II. **Travel option-based environmental comparison between passenger aircraft and high-speed rail**  
Kılıç U., Çam Ö.  
International journal of energy studies (Online), vol.8, no.3, pp.331-348, 2023 (Peer-Reviewed Journal)
- III. **Deep Learning-Based Airspeed Estimation System for a Commercial Aircraft**  
Kılıç U.  
Havacılık ve Uzay Teknolojileri Dergisi, vol.16, no.2, pp.20-35, 2023 (Peer-Reviewed Journal)
- IV. **A detailed emission analysis between regional jet and narrow-body passenger aircraft**  
Kılıç U.  
International journal of energy studies (Online), vol.8, no.2, pp.201-213, 2023 (Peer-Reviewed Journal)
- V. **The Design of Fuzzy Based Weaning Protocol in LabVIEW Environment**  
Güler H., Kılıç U., Kaya T.  
International Journal Of Artificial Intelligence And Neural Networks, vol.6, no.1, pp.16-20, 2016 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Sıcaklık Sensörüne Bağlı Olmadan Uçak İçin Hava Sıcaklığı Değerinin Tahmin Edilmesi**  
Kılıç U.  
6th International Conference On Health, Engineering and Applied Sciences-ICHEAS, Paris, France, 2 - 04 January

2024, pp.55

- II. **Avrupa'nın En Kirli Şehrinde Hava Kirliliği Dikkate Alınarak En Uygun Uçağın Belirlenmesi**  
Kılıç U.  
6. International Ankara Multidisciplinary Studies Congress, Ankara, Turkey, 13 - 14 October 2023, pp.1336-1337
- III. **Makine Öğrenmesi Yöntemlerinin Kullanılması ile Uçak İtke Değerinin Tahmin Edilmesi**  
Kılıç U.  
3rd International Symposium of Scientific Research and Innovative Studies-ISSRIS'23, Balıkesir, Turkey, 15 - 18 March 2023, pp.563-564
- IV. **İç Hat Uçuşları için Yakıt ve Emisyon Analizi**  
Kılıç U.  
3rd International Conference on Applied Sciences-ICHEAS, Cape-Town, South Africa, 25 - 29 January 2023, pp.92
- V. **Sensor Fault Detection and Fault Isolation Scheme for Unmanned Aerial Vehicle**  
Kılıç U., Ünal G.  
2nd International Conference on Innovative Research in Science Engineering and Technology, Rome, Italy, 12 - 14 September 2019
- VI. **Using Full-order Observer in the Form of Generalized Observer Scheme to Detect and Isolate Aircraft Sensor Faults in Automatic Flight Control Systems**  
Kılıç U., Ünal G., Kiyak E., Ayturan K.  
8th International Advanced Technologies Symposium-IATS'17, Elazığ, Turkey, 19 - 22 October 2017, pp.31
- VII. **Pre-diagnosis of Diseases Using Genetic Algorithms**  
Ayturan K., Kılıç U., Güllüoğlu M. T.  
8th International Advanced Technologies Symposium-IATS'17, Elazığ, Turkey, 19 - 22 October 2017, pp.248
- VIII. **The Design of Fuzzy Based Weaning Protocol in LabVIEW Environment**  
Güler H., Kılıç U., Kaya T.  
5th International Conference on Advances in Computing, Electronics and Electrical Technology-CEET 2016, Kuala Lumpur, Malaysia, 12 - 13 March 2016, pp.42-46
- IX. **Analysis of pulmonary and hemodynamic parameters for the weaning process by using fuzzy logic based technology**  
Kılıç U., Güllüoğlu M. T., Güler H., Kaya T.  
22nd International Conference on Information and Software Technologies, ICIST 2016, Druskininkai, Lithuania, 13 - 15 October 2016, vol.639, pp.119-131

## Supported Projects

Kılıç U., TUBITAK Project, Uçak İçin Derin Öğrenme Tabanlı Arıza Giderme Sistemi, 2024 - 2025

Kılıç U., TUBITAK Project, İnsansız Hava Araçları için Algılayıcı Arızası Tespiti, Sistemin Yeniden Yapılandırılması ve İzlenmesi, 2022 - 2023

Ünal G., Kılıç U., Project Supported by Higher Education Institutions, Hava Aracı Sistemi ve Uçuş Durumlarının Matlab-Simulink Aerospace Toolbox da Modellenmesi, 2020 - 2022

Ünal G., Kılıç U., Ayturan K., Project Supported by Higher Education Institutions, Tam Mertebe Gözleyicinin Adanmış Gözleyici Yapısı ve Genelleştirilmiş Gözleyici Yapısı Şeklinde Kullanılarak Algılayıcı Arızalarının Tespiti ve Ayrımı, 2017 - 2017

Güllüoğlu M. T., Ayturan K., Kılıç U., Project Supported by Higher Education Institutions, Hastane Bilgi Sistemi Veri Kümelerinden Yararlanılarak SQL Server ile Hastalık Profili Tahmini, 2017 - 2017

Güllüoğlu M. T., Kılıç U., Project Supported by Higher Education Institutions, Mekanik Ventilatörden Ayırma Başarısı Tahmin Parametrelerinin LabVIEW ile Modellenmesi, 2015 - 2016

Kılıç U., TUBITAK Project, Yapay Zeka Tabanlı Akıllı Weaning Algoritmasının Geliştirilmesi, 2015 - 2016

## **Metrics**

Publication: 23

Citation (WoS): 10

Citation (Scopus): 49

H-Index (WoS): 2

H-Index (Scopus): 5

## **Awards**

Kılıç U., Winner of BISI - Building Interfaces for Social Inclusion/InnoEvent 2012/DENMARK, University Collage Lillebaelt It And Electronics Engineering, January 2012

Kılıç U., Category Winner of BISI - Building Interfaces for Social Inclusion/InnoEvent 2012/DENMARK, University Collage Lillebaelt It And Electronics Engineering, January 2012