

## Res. Asst. İbrahim Akbayır

### Personal Information

**Email:** akbayiri@itu.edu.tr

**Web:** <https://avesis.itu.edu.tr/akbayiri>

### Education Information

Undergraduate, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, Turkey 2019 - Continues

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey 2017 - Continues

Undergraduate Double Major, Istanbul Technical University, Gemi İnşaatı Ve Deniz Bilimleri, Gemi İnşaatı Ve Gemi Makinaları Mühendisliği, Turkey 2020 - 2023

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey 2014 - 2017

Undergraduate, Istanbul Technical University, Turkey 2006 - 2012

### Foreign Languages

English, C1 Advanced

### Research Areas

Civil Engineering

### Academic Titles / Tasks

Research Assistant, Istanbul Technical University, Uçak Ve Uzay Bilimleri, Meteoroloji Mühendisliği, 2014 - Continues

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

- I. INVESTIGATION OF THE FOG-AIR QUALITY RELATIONSHIP IN ISTANBUL**  
Ozdemir E. T. , Deniz A., Yavuz V., Doğan N., Akbayır İ.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.1, pp.30-36, 2018 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. Temporal Analysis of Fog Incident at Airports in Turkey**  
Akbayır I., Yavuz V., Deniz A.  
El-Cezerî Journal of Science and Engineering, vol.5, no.2, pp.327-330, 2018 (Other Refereed National Journals)
- II. Analysis of Hail Incident for Two Different Provinces in Turkey: A Case Study Using Synoptic Analysis and Numerical Weather Prediction Model (WRF)**  
YAVUZ V., AKBAYIR İ., Özen C., DENİZ A.  
International Journal of Engineering Science and Computing, vol.7, no.12, pp.15822-15826, 2017 (Refereed Journals of Other Institutions)

- III. **The Method for Forecasting Relative Humidity with Height**  
YAVUZ V., AKBAYIR İ., ÖZEN C., DENİZ A.  
International Journal of Engineering Science and Computing, vol.7, no.12, pp.15827, 2017 (Refereed Journals of Other Institutions)
- IV. **Analysis of Hail Incident for Two Different Provinces in Turkey: A Case Study Using Synoptic Analysis and Numerical Weather Prediction Model (WRF)**  
Yavuz V., Akbayır I., Deniz A.  
IJESC, vol.7, no.12, pp.15822-15826, 2017 (Refereed Journals of Other Institutions)
- V. **The Method for Forecasting Relative Humidity with Height**  
Yavuz V., Akbayır I., Deniz A.  
IJESC, vol.7, no.12, pp.15827-15828, 2017 (Refereed Journals of Other Institutions)
- VI. **Monthly and Seasonal Trend Analysis of Maximum Temperatures over Turkey**  
ÖZGÜR E., AKBAYIR İ., DENİZ A.  
International Journal of Engineering Science and Computing, vol.7, no.11, pp.15537-15541, 2017 (Refereed Journals of Other Institutions)
- VII. **Meteorological Investigation of the Airplane Crash in Diyarbakır Airport on 8 January 2003**  
AKBAYIR İ., YAVUZ V.  
international journal of engineering science and computing, vol.6, no.12, 2016 (Refereed Journals of Other Institutions)
- VIII. **Evaluation of Air Quality in Terms of Health on a Regional Basis in Istanbul**  
Akbayır I., Yavuz V., Deniz A.  
IJESC, vol.6, no.11, pp.3308-3311, 2016 (Refereed Journals of Other Institutions)
- IX. **Evaluation of Air Quality in Terms of Health on a Regional Basis in Istanbul**  
AKBAYIR İ., YAVUZ V., DENİZ A.  
international journal of engineering science and computing, vol.6, no.11, 2016 (Refereed Journals of Other Institutions)
- X. **Investigation of Wind Characteristics for Bergama in Terms of Wind Energy**  
Yavuz V., Deniz A., Çiftci N., Akbayır I.  
IJIRSET, vol.5, no.12, pp.129-137, 2016 (Refereed Journals of Other Institutions)
- XI. **Comparison of three stations PM10 Data for Istanbul Turkey**  
çavuş p. c., DENİZ A., DOĞAN N., AKBAYIR İ., YAVUZ V.  
international journal of innovative research in science, engineering and technology, vol.5, no.12, 2016 (Refereed Journals of Other Institutions)
- XII. **investigation of wind characteristics for bergama in terms of wind energy**  
YAVUZ V., DENİZ A., çavuş p. c., DOĞAN N., AKBAYIR İ.  
international journal of innovative research in science, engineering and technology, 2016 (Refereed Journals of Other Institutions)
- XIII. **Comparison of Three Stations' PM10 Data for Istanbul, Turkey**  
Deniz A., Çiftci N., Akbayır I., Yavuz V.  
IJIRSET, vol.5, no.12, pp.138-150, 2016 (Refereed Journals of Other Institutions)

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

- I. **Analysis of PM10 and SO2 Values in The South East and Eastern Anatolian Region**  
AKBAYIR İ., EFE B.  
1. ULUSLARARASI İLERİ ARAŞTIRMALAR VE MÜHENDİSLİK KONGRESİ, 16 - 18 November 2017
- II. **Fog Analysis at Adana City Airports**  
Akbayır İ., Yavuz V., Deniz A.  
International Advanced Researches and Engineering Congress-2017, Osmaniye, Turkey, 16 - 18 October 2017
- III. **Temporal Analysis of Fog Incident at Airports in Turkey**

Akbayır İ., Yavuz V., Deniz A.

International Advanced Researches and Engineering Congress-2017, Osmaniye, Turkey, 16 - 18 October 2017

- IV. **Investigation of the Relationship Between Bolu and Kocaeli Dilovası Air Pollution Parameters by WRF-Chem Model**  
Akbayır İ., Çiftci N., Yavuz V., Toros H.  
IAREC'17 (International Advanced Researches & Engineering Congress-2017), Osmaniye, Turkey, 16 - 18 November 2017, pp.1-5
- V. **Evaluation on Air Pollution in Karabük**  
Yavuz V., Çiftci N., Akbayır İ., Toros H.  
MENSEC'17 (International Mediterranean Natural Sciences and Engineering Congress", Podgorica, Montenegro, 19 - 22 October 2017, pp.151-156
- VI. **Investigation of Spatial Variation of Air Pollution in Dilovası-Turkey**  
Çiftci N., Akbayır İ., Yavuz V., Toros H.  
MENSEC'17 (International Mediterranean Natural Sciences and Engineering Congress", Podgorica, Montenegro, 19 - 22 October 2017, pp.169-174
- VII. **Fogsi indeksi ile sis olasılığı hesaplama yöntemi ve kriterleri**  
DOĞAN N., AKBAYIR İ., YAVUZ V., DENİZ A., ÇAVUŞ P. C.  
1st international conference on engineering technology and applied sciences, 21 April 2014 - 22 April 2016
- VIII. **İstanbul yenibosna için mevsimlik kirlilik analizi**  
DOĞAN N., AKBAYIR İ., YAVUZ V., DENİZ A., ÇAVUŞ P. C.  
1st international conference on engineering technology and applied sciences, 21 - 22 April 2016
- IX. **The importance of Blocking Events in Air Pollution in Turkey**  
YAVUZ V., DENİZ A., ÇAVUŞ P. C., DOĞAN N., AKBAYIR İ.  
1st international conference on engineering technology and applied sciences, 21 - 22 April 2016
- X. **Afyon ili için zamansal hava kirliliği analizi**  
ÇAVUŞ P. C., DENİZ A., DOĞAN N., AKBAYIR İ., YAVUZ V.  
1st international conference on engineering technology and applied sciences, 21 - 22 April 2016
- XI. **Karar ağacı modeli kullanılarak istanbul atatürk havalimanı için sis tahmini**  
AKBAYIR İ., YAVUZ V., DENİZ A., ÇAVUŞ P. C., DOĞAN N.  
1st international conference on engineering technology and applied sciences, 21 - 22 April 2016
- XII. **Trabzon havalimanı için veri madenciliği yöntemleri kullanılarak sis analizi ve öngörüsü**  
AKBAYIR İ., YAVUZ V., DENİZ A., ÇAVUŞ P. C., DOĞAN N.  
1st international conference on engineering technology and applied sciences, 21 - 22 April 2016
- XIII. **Trabzon Havalimanı için Veri Madenciliği Yöntemleri Kullanılarak Sis Analizi ve Öngörü**  
Akbayır İ., Yavuz V., Deniz A., Çiftci N.  
ICETAS'16 (1st International Conference on Engineering Technology and Applied Sciences), Afyonkarahisar, Turkey, 21 - 22 April 2016, pp.1512-1515
- XIV. **Investigation of Wind Characteristics for Bergama in terms of Wind Energy**  
Yavuz V., Deniz A., Çiftci N., Akbayır İ.  
ICETAS'16 (1st International Conference on Engineering Technology and Applied Sciences), Afyonkarahisar, Turkey, 21 - 22 April 2016, pp.1492-1496
- XV. **Karar Ağacı Modeli Kullanarak İstanbul Atatürk Havalimanı için Sis Tahmini**  
Yavuz V., Akbayır İ., Deniz A., Çiftci N.  
ICETAS'16 (1st International Conference on Engineering Technology and Applied Sciences), Afyonkarahisar, Turkey, 21 - 22 April 2016, pp.1517-1521
- XVI. **The Importance of Blocking Events in Air Pollution in Turkey**  
Yavuz V., Deniz A., Çiftci N., Akbayır İ.  
ICETAS'16 (1st International Conference on Engineering Technology and Applied Sciences), Afyonkarahisar, Turkey, 21 - 22 April 2016, pp.1497-1501
- XVII. **Comparison of PM10 Data of Three Stations for Istanbul, Turkey**  
Deniz A., Çiftci N., Akbayır İ., Yavuz V.

ICETAS'16 (1st International Conference on Engineering Technology and Applied Sciences, Afyonkarahisar, Turkey, 21 - 22 April 2016, pp.1522-1528

**XVIII. İstanbul Yenibosna için Mevsimlik Kirlilik Analizi**

Çiftci N., Akbayır İ., Yavuz V., Deniz A.

ICETAS'16 (1st International Conference on Engineering Technology and Applied Sciences), Afyonkarahisar, Turkey, 21 - 22 April 2016, pp.1505-1508

**XIX. Deniz A., Çiftci N., Akbayır İ., Yavuz V.**

ICETAS'16 (1st International Conference on Engineering Technology and Applied Sciences), Afyonkarahisar, Turkey, 21 - 22 April 2016, pp.1529-1532

**XX. FOGSI İndeksi ile Sis Olasılığı Hesaplama Yöntemi ve Kriterleri**

Çiftci N., Akbayır İ., Yavuz V., Deniz A.

ICETAS'16 (1st International Conference on Engineering Technology and Applied Sciences), Afyonkarahisar, Turkey, 21 - 22 April 2016, pp.1509-1511

**XXI. Son 10 Yılda Avrupa yı ve Ülkemizi Etkileyen Volkanik Olayların Havacılık Meteorolojisi Bakımından İncelenmesi**

berkan a., AKBAYIR İ., DENİZ A.

7th Atmospheric Sciences Symposium, İstanbul, Turkey, 28 - 30 April 2015, vol.1, pp.487-497

**XXII. İstanbul için Eğimli Yüzeye Gelen Günlük Toplam Radyasyon Tahmini**

ilga a., AKBAYIR İ., TOPÇU H. S.

7th Atmospheric Sciences Symposium, İstanbul, Turkey, 28 - 30 April 2015, vol.2, pp.1232-1243

**XXIII. Muğla için Atmosfer Geçirgenliğinden Yararlanılarak Saatlik Direkt Radyasyon Tahmini**

akn k., AKBAYIR İ., ÖZGÜR E., TOPÇU H. S.

7th Atmospheric Sciences Symposium, İstanbul, Turkey, 28 - 30 April 2015, vol.2, pp.1205-1213