

## Assoc. Prof. Altuğ BOZKURT

### Personal Information

**Office Phone:** [+90 212 383 5834](tel:+902123835834) Extension: 5834

**Email:** [abozkurt@yildiz.edu.tr](mailto:abozkurt@yildiz.edu.tr)

**Web:** <https://avesis.yildiz.edu.tr/abozkurt>

### International Researcher IDs

ORCID: 0000-0001-6458-1260

Publons / Web Of Science ResearcherID: AAZ-9219-2020

ScopusID: 12794236200

Yoksis Researcher ID: 188505

### Education Information

Doctorate, Yildiz Technical University, Faculty Of Electrical & Electronics, Turkey 2005 - 2012

Postgraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Turkey 2002 - 2005

Undergraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Turkey 1996 - 2002

### Research Areas

Electrical and Electronics Engineering

### Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2018 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2013 - 2018

Research Assistant PhD, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2012 - 2013

Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2002 - 2012

### Advising Theses

Bozkurt A., Enerji iletim hatlarında kullanılan direklerdeki gelişmeler, Postgraduate, K.SAUDEGER(Student), 2017

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

- Instant solar irradiation forecasting for solar power plants using different ANN algorithms and network models**  
Yuzer E. O., BOZKURT A.  
Electrical Engineering, vol.106, no.4, pp.3671-3689, 2024 (SCI-Expanded)

- II. **Deep learning model for regional solar radiation estimation using satellite images**  
Yuzer E. O., BOZKURT A.  
Ain Shams Engineering Journal, vol.14, no.8, 2023 (SCI-Expanded)
- III. **Load Forecasting Based on Genetic Algorithm–Artificial Neural Network–Adaptive Neuro-Fuzzy Inference Systems: A Case Study in Iraq**  
AL-Qaysi A. M. M., BOZKURT A., Ates Y.  
Energies, vol.16, no.6, 2023 (SCI-Expanded)
- IV. **Assessment of photometric and electrical measurements of residential light sources**  
Doğanşahin K., AYAZ R., BOZKURT A., KEKEZOĞLU B.  
Electrical Engineering, vol.103, pp.2075-2086, 2021 (SCI-Expanded)
- V. **Implementing a Demand Side Management Strategy for Harmonics Mitigation in a Smart Home using Real Measurements of Household Appliances**  
Çiçek A., Erenoğlu A. K., Erdinç O., Bozkurt A., Taşcıkaraoğlu A., Catalao J.  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.01420615, pp.1, 2021 (SCI-Expanded)
- VI. **Survey of power quality in Turkish national transmission network**  
Kocatepe C., Kekezoğlu B., Bozkurt A., Yumurtacı R., İnan A., Arıkan O., Baysal M., Akkaya Y.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.21, pp.1880-1892, 2013 (SCI-Expanded)
- VII. **Assessment of power quality terms on energy distribution systems: a case study of Istanbul**  
KEKEZOĞLU B., BOZKURT A., ARIKAN O., KOCATEPE C., YUMURTACI R., BAYSAL M.  
PRZEGLAD ELEKTROTECHNICZNY, vol.88, 2012 (SCI-Expanded)
- VIII. **Power quality assessment of grid-connected wind farms considering regulations in turkey**  
Kocatepe C., Inan A., Arıkan O., Yumurtacı R., Kekezoğlu B., Baysal M., Bozkurt A., Akkaya Y.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.13, no.9, pp.2553-2561, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Comparison of Regional Empirical Models Based on Sunshine Duration for Determining Solar Irradiance**  
YÜZER E. Ö., BOZKURT A.  
International Journal of Renewable Energy Research, vol.14, no.1, pp.82-92, 2024 (ESCI)
- II. **Evaluation of Photovoltaic Panel Power Generation Based on Instant Solar Radiation and Meteorological Parameters**  
YÜZER E. Ö., BOZKURT A.  
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.23, no.5, pp.1171-1179, 2023 (Peer-Reviewed Journal)
- III. **DETERMINATION OF PHOTOVOLTAIC SYSTEM OUTPUT POWER BY INTEGRATION OF ARTIFICIAL NEURAL NETWORKS AND MATLAB/SIMULINK MODELS**  
YÜZER E. Ö., BOZKURT A., BARUTÇU İ. Ç.  
Mühendislik Bilimleri ve Tasarım Dergisi, vol.11, no.2, pp.551-563, 2023 (Peer-Reviewed Journal)
- IV. **Determining Optimum Location and Sizing of Distributed Generation Systems in a Real Radial Distribution Network**  
Kaya A., BOZKURT A.  
ELECTRICA, vol.21, no.3, pp.342-351, 2021 (ESCI)
- V. **Economic Analysis of 400 kV Transmission Towers with Cross Arms Insulators**  
Saudeger K., Bozkurt A.  
International Journal of Academic Research and Reflection, vol.5, no.2, pp.55-62, 2017 (Peer-Reviewed Journal)
- VI. **Loss Analysis by Loading Conditions of Distribution Transformers**  
BOZKURT A., KOCATEPE C., YUMURTACI R., TAŞTAN İ., TULUN G.

World Academy of Science, Engineering and Technology International Journal of Energy and Power Engineering, vol.9, no.8, pp.869-872, 2015 (Peer-Reviewed Journal)

- VII. **Comparison of Charge Controllers on PV Panel Performance: An Experimental Study**  
Arikan O., Kekezoğlu B., Durusu A., İşen E., Erduman A., Bozkurt A.  
International Journal of Advancements in Electronics and Electrical Engineering – IJAEEE, vol.3, pp.121-125, 2014 (Peer-Reviewed Journal)
- VIII. **Elektrikli Ofis Cihazlarında Güç Faktörü ve cosn'in İncelenmesi**  
KEKEZOĞLU B., ARIKAN O., KOCATEPE C., YUMURTACI R., BAYSAL M., BOZKURT A.  
3e Electrotech, no.174, 2008 (Non Peer-Reviewed Journal)
- IX. **Elektrikli Ofis Donanımlarının Harmonik Etkilerinin İncelenmesi**  
KEKEZOĞLU B., ARIKAN O., KOCATEPE C., YUMURTACI R., BAYSAL M., BOZKURT A.  
3e Electrotech, no.168, 2008 (Non Peer-Reviewed Journal)
- X. **Elektrikli Ofis Cihazlarında Güç Faktörü ve Cos(fi) nin İncelenmesi**  
KEKEZOĞLU B., ARIKAN O., KOCATEPE C., YUMURTACI R., BAYSAL M., BOZKURT A.  
3e Electrotech, no.174, pp.110-114, 2008 (Non Peer-Reviewed Journal)
- XI. **Harmonic Effects on Electromechanical Overcurrent Relays**  
DALCI K. B., YUMURTACI R., BOZKURT A.  
DOĞUŞ ÜNİVERSİTESİ DERGİSİ, vol.6, no.2, pp.202-209, 2005 (Peer-Reviewed Journal)
- XII. **Analysis of Harmonic Effects on Electromechanical Instantaneous Overcurrent Relays with Different Neural Networks Models**  
Yumurtacı R., Gülez K., Bozkurt A., Kocatepe C., Uzunoğlu M.  
International Journal of Information Technology (Singapore), vol.11, no.5, pp.26-35, 2005 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Doğa ve Mühendislik Bilimlerinde Güncel Tartışmalar 4**  
Kesik A., Bozkurt A.  
in: Doğa ve Mühendislik Bilimlerinde Güncel Tartışmalar 4, Hikmet Y. ÇOĞUN, Zeynel KARACAGİL, Editor, Bilgin Kültür Sanat Yayınları, Ankara, pp.40-49, 2022
- II. **Harmonic Effects of Power System Loads: An Experimental Study**  
KOCATEPE C., YUMURTACI R., ARIKAN O., BAYSAL M., KEKEZOĞLU B., BOZKURT A., KUMRU C. F.  
in: Power Quality Issues, Zobia A., Editor, Intech, Rijeka, pp.175-200, 2013

## Refereed Congress / Symposium Publications in Proceedings

- I. **SOLAR RADIATION PREDICTION USING MACHINE LEARNING APPROACH BASED ON VARIOUS METEOROLOGICAL VARIABLES**  
Yüzer E. Ö., Bozkurt A.  
5. International Anatolian Scientific Research Congress, Hakkari, Turkey, 21 - 23 July 2023, pp.1460-1467
- II. **INVESTIGATION OF POWER GENERATION BEHAVIOR OF PHOTOVOLTAIC PLANTS UNDER DAILY RADIATION AND TEMPERATURE CONDITIONS**  
Barutçu İ. Ç., Yüzer E. Ö., Bozkurt A.  
1. INTERNATIONAL ULUDAĞ SCIENTIFIC RESEARCH CONGRESS, Bursa, Turkey, 15 - 16 July 2023, pp.471-480
- III. **ELECTRICAL LOAD FORECASTING BASED ON ARTIFICIAL NEURAL NETWORK IN IRAQ**  
ALQAYSI A. M., BOZKURT A., ATEŞ Y.  
10. ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 24 - 26 December 2022, vol.2022, pp.959-966
- IV. **Yapay Sinir Ağları İle Meteorolojik Veriler Kullanılarak Güneş Işınım Tahmini: Hakkari Örneği**

Yüzer E. Ö., Bozkurt A., Kekezoğlu B.

9. Uluslararası Mühendislik Mimarlık Ve Tasarım Kongresi, 14 - 15 May 2022, pp.260-268

- V. **Busbar Voltage Regulation in Alpaslan II Hydroelectric Power Plant**  
Kesik A., Bozkurt A.  
2nd International Congress of Engineering and Natural Sciences Studies, 7 - 09 May 2022, pp.117
- VI. **LED Tabanlı Akıllı Aydınlatma Sistemlerinin Güç Kalitesine Etkilerinin İncelenmesi**  
DOĞANŞAHİN K., AYAZ R., BOZKURT A.  
21. Otomatik Kontrol Ulusal Toplantısı TOK 2019, Muğla, Turkey, 11 - 14 September 2019
- VII. **Harmonic Behaviour of RGB WLED**  
DOĞANŞAHİN K., AYAZ R., BOZKURT A., KEKEZOĞLU B.  
54th International Universities Power Engineering Conference (UPEC 2019), Bucharest, Romania, 3 - 06 September 2019
- VIII. **Power Quality Assessment of Indoor LED Luminaires**  
Ayaz R., Doğanşahin K., Bozkurt A., Kekezoğlu B.  
2019 Electric Power Quality and Supply Reliability Conference, Hiiu, Estonia, 12 - 15 June 2019
- IX. **M8 Dudullu-Bostancı Metro Hattı Rejeneratif Frenleme Enerjisinin Modellenmesi ve Enerji Verimlilik Potansiyelinin Değerlendirilmesi**  
KOÇAK G., BOZKURT A., KILIÇ B.  
2nd International Congress on Engineering and Architecture (ENAR-2019), 22 - 24 April 2019
- X. **Rooftop Solar Power Plant Design and Feasibility Study**  
TOPRAK S., FARZAMBEHBOUDİ Y., BOZKURT A.  
The International Advanced Technologies Symposium (IATS17), Elazığ, Turkey, 19 - 21 October 2017
- XI. **Reliability Analysis of a Wind/PV/Battery Hybrid System: A Case Study for YTU Davutpasa Campus**  
Durusu A., Kekezoğlu B., Erduman A., Arıkan O., İşen E., Bozkurt A.  
2th South East European Conference on Sustainable Development of Energy Water and Environment Systems, Koper, Slovenia, 15 - 17 June 2016, pp.1-6
- XII. **Reliability analysis of hybrid energy systems: Case study of davutpasa campus**  
Kekezoğlu B., Arıkan O., Erduman A., Isen E., Durusu A., Bozkurt A.  
IEEE EuroCon 2013, Zagreb, Croatia, 1 - 04 July 2013, pp.1141-1144
- XIII. **Introduction to Hybrid System - Yildiz Technical University**  
Arıkan O., İşen E., Durusu A., Kekezoğlu B., Bozkurt A., Erduman A.  
IEEE Eurocon 2013, Zagreb, Croatia, 1 - 04 July 2013, pp.1145-1149
- XIV. **Modeling and Control of a Wind Turbine with a Permanent Magnet Synchronous Generator**  
İŞEN E., BOZKURT A., KOCATEPE C., ARIKAN O., KEKEZOĞLU B.  
International Conference on Nuclear & Renewable Energy Resources (NURER 2012), İstanbul, Turkey, 20 May 2012, pp.1-6
- XV. **Influence of Harmonics on a Grid Connected Wind Farm System Under Variable Wind Speed Conditions**  
BOZKURT A., KOCATEPE C., ARIKAN O., KEKEZOĞLU B., İŞEN E.  
International Conference on Nuclear & Renewable Energy Resources (NURER 2012), İstanbul, Turkey, 20 May 2012, pp.1-7
- XVI. **The Effect of Blade Size on Wind Turbine Performance**  
BOZKURT A., KOCATEPE C., KEKEZOĞLU B., ARIKAN O., İŞEN E.  
International Conference on Renewable Energy Utilization (ICREU 2012), Coimbatore, India, 04 January 2012, pp.435-439
- XVII. **Investigation of Harmonic Effect in Turkey's Iron Steel Industry**  
KEKEZOĞLU B., KOCATEPE C., YUMURTACI R., ARIKAN O., BAYSAL M., BOZKURT A., AKKAYA Y., Özdemirci E.  
The 6th International Conference, 2008 Power Quality and Supply Reliability (PQ2008), Parnu, Estonia, 27 August 2008, pp.435-439
- XVIII. **Güç Sistemlerinde Araharmoonikler ve Etkileri**  
KEKEZOĞLU B., KOCATEPE C., YUMURTACI R., BAYSAL M., ARIKAN O., BOZKURT A.

- Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 May 2007, pp.263-266
- XXIX. **Dağıtım Sisteminde Kısa Devre Gücünün Harmonik Bozulmaya Etkisi**  
KOCATEPE C., YUMURTACI R., BAYSAL M., ARIKAN O., BOZKURT A., KEKEZOĞLU B.  
Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 May 2007, pp.267-271
- XX. **Dağıtım Sisteminde Kısa Devre Gücünün Harmonik Bozulmaya Etkisi**  
KOCATEPE C., YUMURTACI R., BAYSAL M., ARIKAN O., BOZKURT A., KEKEZOĞLU B.  
Enerji Verimliliği ve Kalitesi Sempozyumu (EVK 2007), Kocaeli, Turkey, 17 May 2007, pp.267-271
- XXI. **Harmoniklerin Kompanzasyon Tesisleri Üzerindeki Etkilerinin Rezonans Olayları Bakımından İncelenmesi**  
YUMURTACI R., ARIKAN O., BOZKURT A., KOCATEPE C., BAYSAL M., KEKEZOĞLU B.  
Enerji Verimliliği ve Kalitesi Sempozyumu (EVK 2007), Kocaeli, Turkey, 17 May 2007, pp.272-277
- XXII. **The Analysis of Magnetic Fields in Nonlinear Load Conditions by Using Matlab/Simulink**  
İZGİ E., İNAN A., ARIKAN O., BOZKURT A., NAKİR İ.  
4th International Conference on Electrical and Power Engineering (EPE-2006), Iasi, Romania, 12 October 2006, pp.653-660
- XXIII. **Analysis of AC Motor Drives as a Harmonic Source**  
KEKEZOĞLU B., ARIKAN O., BOZKURT A., KOCATEPE C., YUMURTACI R.  
4th International Conference on Electrical and Power Engineering (EPE 2006), Iasi, Romania, 12 October 2006, pp.832-837
- XXIV. **Neural Networks Based Analysis of Harmonic Effects on Electromechanical Instantaneous Overcurrent Relays**  
YUMURTACI R., BOZKURT A., GÜLEZ K.  
The Society of Instrument and Control Engineers (SICE 2005), Okayama, Japan, 08 August 2005, pp.1012-1015
- XXV. **Neural Networks Based Analysis of Harmonic Effects on Inverse Time Static Overcurrent Relays**  
YUMURTACI R., BOZKURT A., GÜLEZ K.  
Innovations in Intelligent Systems and Applications (INISTA 2005), İstanbul, Turkey, 15 June 2005, pp.108-111
- XXVI. **Güç Sistemlerinde Araharmikler Ve Etkileri**  
KEKEZOĞLU B., KOCATEPE C., YUMURTACI R., BAYSAL M., ARIKAN O., BOZKURT A.  
Enerji Verimliliği ve Kalitesi Sempozyumu (EVK 2007), Kocaeli, Turkey, 17 May 2005, pp.263-266
- XXVII. **Kompakt Floresant Lambaların Harmonik Kaynağı Olarak İncelenmesi**  
YUMURTACI R., ARIKAN O., BOZKURT A.  
Enerji Verimliliği ve Kalitesi Sempozyumu (EVK 2005), Kocaeli, Turkey, 17 May 2005, pp.207-211
- XXVIII. **Harmoniklerin Kompanzasyon Tesisleri Üzerindeki Etkilerinin Rezonans Olayları Bakımından İncelenmesi**  
YUMURTACI R., ARIKAN O., BOZKURT A., KOCATEPE C., BAYSAL M., KEKEZOĞLU B.  
Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 May 2007, pp.272-277

## Supported Projects

Durusu A., Arıkan O., Kekezoğlu B., Bozkurt A., Kumru C. F., Kocatepe C., Tanrıöven M., Project Supported by Higher Education Institutions, Küçük Ölçekli Hibrid Rüzgar Güneş Enerji Sistemlerinde Güvenilirlik Analizi Davutpaşa Kampüsü Örnek Uygulaması, 2012 - 2015

Bozkurt A., İnan A., Acarkan B., Project Supported by Higher Education Institutions, OG TRAFİKO MERKEZLERİNİN GÜÇ KALİTESİ VE GÜVENLİK ŞARTLARININ ARAŞTIRILMASI, 2012 - 2013

## Metrics

Publication: 55

Citation (WoS): 41

Citation (Scopus): 79

H-Index (WoS): 3

H-Index (Scopus): 5