

## Lect. YUNUS EMRE EKİCİ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAE-2528-2021

Yoksis Researcher ID: 313315

### Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), Turkey 2019 - 2020

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği, Turkey 2016 - 2019

Postgraduate, Inonu University, Sosyal Bilimler Enstitüsü, Turkey 2015 - 2016

Undergraduate, Inonu University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 2009 - 2013

### Certificates, Courses and Trainings

R&D Management, Benceiyi Raylı Sistemler ST200W Kullanım, Bakım ve Onarımı, Benceiyi A.Ş, 2017

R&D Management, Ventura double articulated bus door systems, Ventura Systems CV, 2017

R&D Management, NETES Fluke 437-II Güç Kalite Analizörü ve Fluke 1550C Kit İzolasyon Test Cihazı Eğitimi, NETES, 2016

R&D Management, Bozankaya Trambus Elektrik Sistemleri, Bozankaya Otomotiv A.Ş, 2015

R&D Management, Articulation systems, Hübner Articulation Systems, 2015

R&D Management, Air Conditioning systems, Thermoking, 2015

R&D Management, AV-132 und RL 82 EC Axle, ZF Axle Systems, 2014

R&D Management, EBS ve ABS fren sistemleri, WABCO, 2014

### Dissertations

Postgraduate, Batarya yönetim sistemleri, Inonu University, Fen Bilimleri Enstitüsü, 2019

### Research Areas

Power System Analysis, Renewable energy

### Academic Titles / Tasks

Lecturer, Inonu University, Osb Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2019 - Continues

## Courses

Elektrikli Araçlarda Yardımcı Sistemler, Associate Degree, 2021 - 2022  
Elektrikli Araçlarda Ağ Sistemleri, Associate Degree, 2021 - 2022  
Analog Haberleşme, Associate Degree, 2021 - 2022  
İklimlendirme ve Soğutma Elektriği, Associate Degree, 2021 - 2022  
Arıza Analizi, Associate Degree, 2021 - 2022  
Elektrikli Araçlarda Güç Sistemleri, Associate Degree, 2021 - 2022  
Güç Aktarma Organları, Associate Degree, 2021 - 2022  
Elektrik Makineleri, Associate Degree, 2021 - 2022  
Pano Tasarım ve Montajı, Associate Degree, 2020 - 2021  
EAT201 Elektrikli Araçlarda Güç Aktarma Organları, Associate Degree, 2021-2022  
ELK2019 Arıza Analizi, Associate Degree, 2021-2022  
EAT211 Elektrik Makineleri, Associate Degree, 2021-2022  
ELK107 Ölçme Tekniği, Associate Degree, 2020-2021  
ETH203 Sayısal Haberleşme, Associate Degree, 2020-2021  
EAT105 Üretim Teknikleri, Associate Degree, 2020-2021  
EAT106 Elektrikli Araçlarda Ağ Sistemleri, Associate Degree, 2020-2021  
EHT201 Analog Haberleşme, Associate Degree, 2020-2021  
Programlanabilir Denetleyiciler, Associate Degree, 2020-2021  
Üretim Teknikleri, Associate Degree, 2020 - 2021  
Pano Tasarım ve Montajı, Associate Degree, 2020-2021  
Programlanabilir Denetleyiciler (PLC), Associate Degree, 2019 - 2020  
EAT103 Pil Teknolojileri, Associate Degree, 2020-2021  
Pil Teknolojileri, Associate Degree, 2020 - 2021  
İklimlendirme ve Soğutma Elektriği, Associate Degree, 2020-2021  
Sayısal Haberleşme, Associate Degree, 2020 - 2021  
Ölçme Tekniği, Associate Degree, 2020 - 2021  
EAT114 Elektrikli Araçlarda Yardımcı Sistemler, Associate Degree, 2020-2021

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

- I. **A novel energy consumption prediction model of electric buses using real-time big data from route, environment, and vehicle parameters**  
Ekici Y. E., Akdağ O., Aydın A. A., Karadağ T.  
IEEE ACCESS, vol.1, no.11, pp.105305-105322, 2023 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Optimization of Proportional-Integral-Derivative Parameters for Speed Control of Squirrel-Cage Motors with Seahorse Optimization**  
Ekici Y. E., Karadağ T., Aydın A. A., Akdağ O.  
Electrica, vol.1, no.1, pp.1-9, 2024 (ESCI)
- II. **Efficiency Analysis of Various Batteries with Real-time Data on a Hybrid Electric Vehicle**  
EKİCİ Y. E., DİKMEN İ. C., NURMUHAMMED M., KARADAĞ T.  
International Journal of Automotive Science and Technology, vol.5, no.3, pp.214-223, 2021 (Peer-Reviewed Journal)
- III. **A Review on Electric Vehicle Charging Systems and Current Status in Turkey**  
EKİCİ Y. E., DİKMEN İ. C., NURMUHAMMED M., KARADAĞ T.  
International Journal of Automotive Science and Technology, vol.5, no.4, pp.316-330, 2021 (Peer-Reviewed Journal)

- IV. **Electrification in Urban Transport: A Case Study with Real-time Data**  
Dikmen İ. C., Ekici Y. E., Karadağ T., Abbasov T., Hamamcı S. E.  
Balkan Journal of Electrical and Computer Engineering, vol.9, no.1, pp.69-88, 2021 (Peer-Reviewed Journal)
- V. **Charge and discharge characteristics of different types of batteries on a hybrid electric vehicle model and selection of suitable battery type for electric vehicles**  
EKİCİ Y. E., TAN N.  
International Journal of Automotive Science and Technology, 2019 (Peer-Reviewed Journal)
- VI. **INVESTIGATION OF CHARGING AND DISCHARGING CHARACTERISTICS OF DIFFERENT TYPE BATTERIES USING TRAMBUS ACCELERATOR PEDAL DATA ON HYBRID ELECTRIC VEHICLE MODEL**  
EKİCİ Y. E., TAN N.  
The International Journal of Energy and Engineering Sciences, 2018 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Driving Range Problem in Electric Vehicles and Methods to Increase**  
EKİCİ Y. E., KARADAĞ T., AYDIN A. A., AKDAĞ O.  
in: Article and Reviews in Engineering Sciences, , Editor, Platanus Publishing, Ankara, pp.253-286, 2024

## Refereed Congress / Symposium Publications in Proceedings

- I. **Impact of Outside Temperature on Driving Range and Energy Consumption Using Real-Time Big Data for Electric Buses**  
Ekici Y. E., Karadağ T., Aydın A. A., Akdağ O.  
8th International Artificial Intelligence and Data Processing Symposium (IDAP'24), Sep, 21-22, 2024, Malatya, Türkiye, Malatya, Turkey, 21 - 22 September 2024, pp.1-8
- II. **REVIEW AND ANALYSIS OF REAL TIME BIG DATA OF ELECTRIC BUS CONSUMPTION DATA AND OPTIMUM INTEGRATION INTO THE URBAN TRANSPORTATION ROUTES**  
EKİCİ Y. E., AKDAĞ O., AYDIN A. A., KARADAĞ T.  
ANKARA INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH-VII, Ankara, Turkey, 02 December 2022, pp.1405-1418
- III. **INVESTIGATION OF CHARGING AND DISCHARGING CHARACTERISTICS OF DIFFERENT TYPE BATTERIES ON HYBRID ELECTRIC VEHICLE MODEL**  
EKİCİ Y. E., TAN N.  
3rd International Energy Engineering Congress, 18 - 19 October 2018
- IV. **Farklı Batarya Tiplerinin Şarj ve Deşarj Karakteristiklerinin Hibrit Araç Modeli Üzerinde İncelenmesi**  
EKİCİ Y. E., TAN N.  
International Conference on Innovative Engineering Applications (CIEA' 2018), 20 - 22 September 2018
- V. **Manyetik sıvı nüveli transformatörün tasarımı ve incelenmesi**  
EKİCİ Y. E., ABBASOV T., KARADAĞ T., DİKMEN İ. C.  
2018 International Conference on Artificial Intelligence and Data Processing (IDAP), 28 - 30 September 2018

## Supported Projects

KARADAĞ T., EKİCİ Y. E., AYDIN A. A., Project Supported by Higher Education Institutions, Elektrikli Araçlarda Menzil Artışına Yönelik Yapay Zeka Tabanlı Sürdürülebilir Ulaşım Modelinin Geliştirilmesi Optimizasyonu ve Analizi, 2023 - Continues

Ekici Y. E., Project Supported by Other Official Institutions, Elektrikli Araçlara Yönelik Mobil Şarj İstasyonunun Tasarımı, Geliştirilmesi ve Prototip Üretimi, 2022 - 2022

Ekici Y. E., Project Supported by Other Official Institutions, Yenilenebilir Enerji Üretim Tesislerinde Kullanılan Enerji Depolama Sistemlerine Yönelik Batarya Yönetim Sisteminin Yardımcı Kart Tasarımı, Geliştirilmesi ve Prototip Üretimi, 2022 - 2022

ALTUĞ M., DİKMEN İ. C., NURMUHAMMED M., KARADAĞ T., EKİCİ Y. E., Project Supported by Higher Education Institutions, Elektrikli Araç Teknolojileri ve Kaynak Teknolojilerinin Sanal ve Gerçek Parametrelerinin Simülasyon Yardımıyla Karşılaştırılması Analizi ve Verimliliklerinin Optimizasyonu, 2021 - 2022

ALTUĞ M., KARADAĞ T., EKİCİ Y. E., DİKMEN İ. C., NURMUHAMMED M., ABBASOV T., Project Supported by Higher Education Institutions, Elektrikli Araçların Mekanik Batarya ve Elektronik Sistemlerinin Performans Kriterlerinin Geliştirilmesine Yönelik Analizi Modellemesi ve Optimizasyonu, 2021 - 2022

Ekici Y. E., Koyunoğlu C., Dikmen İ. C., Altuğ M., Nurm Muhammed M., Gündüz M. E., Development Agency, Elektrikli Araçlar ve Kaynak Teknolojileri Sanal Simülasyon Laboratuvarı, 2021 - 2021

## **Memberships / Tasks in Scientific Organizations**

IEEE, Member, 2019 - Continues, Turkey

## **Scientific Refereeing**

Politeknik Dergisi, Journal Indexed in ESCI, July 2021

Gazi University Journal of Science Section A: Engineering and Innovation, Other Indexed Journal, March 2021

## **Metrics**

Publication: 13

## **Non Academic Experience**

Business Establishment Private, Bozankaya Otomotiv A.Ş, ARGE

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