



Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: H-6927-2018

ScopusID: 57160871500

Yoksis Researcher ID: 306265



Education

Doctorate, Inonu University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği,
Turkey 2016 - 2022

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Technology Foresight and Forecasting, UITP Training Programme on Electric Buses in Geneva, UITP (Union
Internationale des Transports Publics), 2016

Dissertations

Doctorate, Design and Implementation of an Intelligent Battery Management System for Electric Vehicles, Inonu
University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2022

Research Areas

Electrical and Electronics Engineering

Academic Positions

Lecturer, Inonu University, Osb Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2020 - Continues

Lecturer, Malatya Turgut Özal University, Arapgir Vocational School, Department Of Electricity And Energy, 2019 - 2020

Academic and Administrative Experience

Head of Department, Inonu University, Osb Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2021 - Continues

Courses

Associate Degree

Özel Sensör Teknolojileri, Associate Degree, 2022-2023
Mathematics II, Associate Degree, 2021 - 2022, 2020 - 2021
Alternating Current Circuit Analysis, Associate Degree, 2021 - 2022, 2020 - 2021
Elektrikli Araçlarda Kontrol Sistemleri, Associate Degree, 2022-2023
Özel Sensör Teknolojileri, Associate Degree, 2021 - 2022, 2020 - 2021
Otomotiv Elektriği, Associate Degree, 2022-2023
Matematik, Associate Degree, 2022-2023
Otomotiv Elektroniği, Associate Degree, 2021 - 2022
Elektrikli Araçlarda Kontrol Sistemleri, Associate Degree, 2021 - 2022, 2020 - 2021
Temel Elektronik, Associate Degree, 2021-2022
Elektrikli Araçlarda Kontrol Sistemleri, Associate Degree, 2021-2022
Otomotiv Elektriği, Associate Degree, 2021-2022
Özel Sensör Teknolojileri, Associate Degree, 2021-2022
Bilgi ve İletişim Teknolojisi, Associate Degree, 2021-2022
Teknolojinin Bilimsel İlkeleri I, Associate Degree, 2021-2022
Matematik I, Associate Degree, 2021-2022
Basic Electronics, Associate Degree, 2020 - 2021
Professional Mathematics, Associate Degree, 2020 - 2021
Mesleki Matematik, Associate Degree, 2020-2021
Matematik II, Associate Degree, 2020-2021
Workplace Application, Associate Degree, 2020 - 2021
Bilgi ve İletişim Teknolojileri, Associate Degree, 2020-2021
Workplace Training, Associate Degree, 2020 - 2021
Temel Elektronik, Associate Degree, 2020-2021
Specially Designed Motors, Associate Degree, 2019 - 2020
Otomotiv Elektriği, Associate Degree, 2020-2021
Temel Elektronik, Associate Degree, 2020-2021
Automotive Electricity, Associate Degree, 2020 - 2021, 2019 - 2020
Otomotiv Elektroniği, Associate Degree, 2020-2021
Measurement Technique, Associate Degree, 2019 - 2020
Information and Communication Technology, Associate Degree, 2020 - 2021
AC Devre Analizi, Associate Degree, 2020-2021
Information and Communication Technology, Associate Degree, 2020 - 2021
Sensors and Transducers, Associate Degree, 2019 - 2020
Sensörler ve Transdüserler, Associate Degree, 2019-2020
Mesleki Yabancı Dil 1, Associate Degree, 2019-2020
Otomotiv Elektriği, Associate Degree, 2019-2020
Ölçme Tekniği, Associate Degree, 2019-2020
Professional Foreign Language I, Associate Degree, 2019 - 2020
Otomotiv Elektroniği, Associate Degree, 2019-2020
Özel Tasarimli Motorlar, Associate Degree, 2019-2020

Undergraduate Double Major

Yapay Zeka ve Optimizasyon Yöntemleri, Undergraduate Double Major, 2023-2024
Yapay Zeka ve Optimizasyon Yöntemleri, Undergraduate Double Major, 2022-2023

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Electrical Method for Battery Chemical Composition Determination**
Dikmen İ. C., Karadağ T.
IEEE Access, no.10, pp.6496-6504, 2022 (SCI-Expanded)

Articles Published in Other Journals

- I. **Multi-Chemistry Battery Management System for Electric Vehicles**
DİKMEN İ. C., YILDIRAN N., KARADAĞ T.
The European Journal of Research and Development, vol.2, no.2, pp.126-134, 2022 (Peer-Reviewed Journal)
- II. **Yeni Nesil, Modüler ve Akıllı Batarya Yönetim Sistemi**
Karadağ T., Dikmen İ. C.
Avrupa Bilim ve Teknoloji Dergisi, vol.32, pp.1103-1112, 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. **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)
- V. **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)
- VI. **Multi-Parameter Optimization of Sliding-Mode Controller for Quadcopter Application**
Dikmen İ. C., Karadağ T., Yeroğlu C.
Anatolian Science, vol.3, no.1, pp.14-28, 2018 (Peer-Reviewed Journal)
- VII. **Dikey İniş-Kalkış Yapabilen Dört Rotorlu Hava Aracının (Quadrotor) Uçuş Kontrolü**
Dikmen İ. C., Arısoy A., Temeltaş H.
Havacılık ve Uzay Teknolojileri Dergisi, vol.4, no.3, pp.33-40, 2010 (Peer-Reviewed Journal)

Books

- I. **Devre Analizinde Dönüşüm Teknikleri ve Uygulamaları**
Karadağ T., Mammadov A., Dikmen İ. C.
in: Mühendislik Bilimlerinde Güncel Araştırmalar ve Uygulama, Prof. Dr. Duygu Kavak, Dr. Öğr. Üyesi Cihan Döğüşgen Erbaş, Editor, Livre de Lyon, Lyon, pp.17-36, 2022
- II. **Devre Analizinde Değişken Rejimler**
Dikmen İ. C., Mammadov A., Karadağ T.
in: Mühendislik Bilimlerinde Güncel Araştırmalar ve Uygulama, Prof. Dr. Duygu Kavak, Dr. Öğr. Üyesi Cihan Döğüşgen Erbaş, Editor, Livre de Lyon, Lyon, pp.37-68, 2022

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **On Board Battery Type Determination**
Dikmen İ. C., Karadağ T.
5th International Symposium on Multidisciplinary Studies and Innovative Technologies, İstanbul, Turkey, 21

October 2021, (Full Text)

- II. **Batarya Yönetim Sistemi Fonksiyonlarının Gelişimi ve Topolojilerinin İncelenmesi**
Karadağ T., Dikmen İ. C.
6. Uluslararası Erciyes Bilimsel Araştırmalar Kongresi, Kayseri, Turkey, 01 September 2021, pp.49-60, (Full Text)
- III. **Tek Fazlı Transformatörün Nüvesinde Oluşturulan Hava Boşluklarında Manyetik Sıvı Kullanılarak Çıkış Karakteristiklerinin İncelenmesi**
KARTACA K., ABBASOV T., KARADAĞ T., DİKMEN İ. C.
3rd International Energy Engineering Congress (UEMK2018), Gaziantep, Turkey, 18 October 2018 - 19 October 2019, pp.964-973, (Full Text)
- IV. **Batarya Teknolojilerine Genel Bir Bakış**
DİKMEN İ. C., KARTACA K., KARADAĞ T., ABBASOV T.
3rd International Energy Engineering Congress (UEMK2018), Gaziantep, Turkey, 18 October 2018 - 19 October 2019, pp.974-987, (Full Text)
- V. **Design and implementation of ultrasonic sonar system for autonomous vehicles**
SEVEN S., DİKMEN İ. C., KARADAĞ T., BAKIR H. G., ABBASOV T.
2018 International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018, (Full Text)
- VI. **Control method simulation and application for autonomous vehicles**
Arikan A., Kayaduman A., Polat S., Şimşek Y., Dikmen İ. C., Bakır H. G., Karadağ T., Abbasov T.
2018 INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND DATA PROCESSING (IDAP), Malatya, Turkey, 28 - 30 September 2018, (Full Text)
- VII. **Electromagnetic field pollution measurements and mappings in a university settlement**
KARADAĞ T., ABBASOV T., KARTACA K., DİKMEN İ. C.
2018 International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018, (Full Text)
- VIII. **Designing and Analysing of Ferrofluid Core Transformer**
KARTACA K., ABBASOV T., KARADAĞ T., EKİCİ Y. E., DİKMEN İ. C.
2018 International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018, (Full Text)
- IX. **Development and application of sensor network for autonomous vehicles**
KAYADUMAN A., ARIKAN A., DİKMEN İ. C., BAKIR H. G., KARADAĞ T., ABBASOV T.
2018 INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND DATA PROCESSING (IDAP), Malatya, Turkey, 28 - 30 September 2018, (Full Text)
- X. **Bir üniversite yerleşkesinde anlık elektromanyetik alan kirlilik ölçümü ve haritalandırılması (Gündüz çalışma saatleri içerisinde)**
ARIKAN A., KARTACA K., KILINÇ E., KÖMÜRKARA T., KARADAĞ T., ABBASOV T., DİKMEN İ. C., KESKİNKILIÇ U.
International Conference on Artificial Intelligence and Data Processing IDAP 2018, Malatya, Turkey, 28 - 30 September 2018, (Full Text)
- XI. **Otonom araçlar için ultrasonik sonar sisteminin tasarımı ve uygulaması**
DİKMEN İ. C., ABBASOV T., KARADAĞ T.
International Conference on Artificial Intelligence and Data Processing IDAP 2018, Malatya, Turkey, 28 - 30 September 2018, (Full Text)
- XII. **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, (Full Text)
- XIII. **The role and status of the universities in global energy policy Case study: Inonu University, Malatya, Turkey**
ABBASOV T., KARADAĞ T., DİKMEN İ. C., KARTACA K.
International Conference on Energy of the Future (ICEF2018), Baku, Azerbaijan, 7 - 08 September 2018, (Full Text)

- XIV. **Tam Elektrikli Toplu Taşıma Sisteminin Simülasyonu Örnek Çalışma: Malatya Trambüs Projesi**
SEVEN S., DİKMEN İ. C., KARADAĞ T.
9th International Automotive Technologies Congress (OTEKON 2018), Bursa, Turkey, 7 - 08 May 2018, (Full Text)
- XV. **A Numerical Study for Automatic Battery Identification in Hybrid Battery Packs for Electric Vehicles**
Dikmen İ. C., Seven S., Karadağ T.
9th International Automotive Technologies Congress (OTEKON 2018), Bursa, Turkey, 7 - 08 May 2018, (Full Text)
- XVI. **Modelling of Particle Capture Dynamics from non-Newtonian Liquids by Using Superconductor Solenoid Magnets**
BAKIR H. G., KARADAĞ T., DİKMEN İ. C.
6th International Conference on Superconductivity and Magnetism (ICSM2018), Antalya, Turkey, 29 April - 04 May 2018, pp.722, (Summary Text)
- XVII. **Metropol Bir Şehirde Ulaşım Sorunlarının Toplu Taşıma Çözümleri Açısından İncelenmesi**
DİKMEN İ. C., KARADAĞ T., ABBASOV T., TURAN M.
ITSC'18 1st International Conference on Intelligent Transportation Systems, Bandırma, Turkey, 19 - 21 April 2018, (Summary Text)
- XVIII. **Attitude Control of a Quadrotor**
Dikmen İ. C., Arısoy A., Temeltaş H.
RAST 2009: PROCEEDINGS OF THE 4TH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN SPACE TECHNOLOGIES, İstanbul, Turkey, 11 - 13 June 2009, pp.722-727, (Full Text)

Funded Projects

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

KARADAĞ T., DİKMEN İ. C., Project Supported by Higher Education Institutions, Elektrikli Araçlar için Akıllı Batarya Yönetim Sisteminin Tasarımı ve Uygulaması, 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., Nurmhammed M., Gündüz M. E., Development Agency, Elektrikli Araçlar ve Kaynak Teknolojileri Sanal SimülasyonLaboratuvarı, 2021 - 2021

Dikmen İ. C., Karadağ T., TUBITAK Project, E-CAMELEON, 2018 - 2019

Patent

Dikmen I. C., Karadağ T., Electronic Method for Determining Battery Chemistry for Lithium-Based Batteries, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2021/005464 , Standard Registration, 2021

Karadağ T., Dikmen İ. C., Hibrit ve Elektrikli Araç Batarya Ekspertiz Sistemi ve Yöntemi, Patent, CHAPTER G Physics, The Invention Recourse Number: 2021/018933 , Standard Registration, 2021

Karadağ T., Dikmen İ. C., Pil Kimyasını Otomatik Belirleyebilen Adaptif, Modüler ve Akıllı Batarya Yönetim Sistemi, Patent, CHAPTER G Physics, The Invention Recourse Number: 2021/018973 , Standard Registration, 2021

Memberships and Roles in Scientific Organizations

IEEE Computer Society, Member, 2022 - Continues, United States Of America

IEEE, Member, 2018 - Continues, United States Of America

IEEE Vehicular Technology Society , Member, 2018 - 2022, United States Of America

Peer Reviews in Scientific Publications

GÜMÜŞHANE ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, August 2020
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, SCI Journal, January 2020
Journal of Aeronautics and Space Technologies, Other Indexed Journal, January 2018
JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS, Journal Indexed in SCI-E, January 2018
IET Electrical Systems in Transportation, Journal Indexed in ESCI, January 2017
IEEE Computing in Science and Engineering, Other Indexed Journal, June 2016
ISA TRANSACTIONS, SCI Journal, January 2016
CANADIAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING-REVUE CANADIENNE DE GENIE ELECTRIQUE ET INFORMATIQUE, SCI Journal, January 2016

Metrics

Publication: 28
Citation (WoS): 52
Citation (Scopus): 92
H-Index (WoS): 3
H-Index (Scopus): 3

Awards

Karadağ T., Dikmen İ. C., En Yenilikçi Bilimsel Temelli Proje Kategorisinde Birincilik Ödülü, Rdconf Ar-Ge Ve İnovasyon Ödülleri 2021, January 2022

Entrepreneurship Activities

Limited, SusTech Ar-Ge, Eğitim ve Danışmanlık Ltd. Şti., 05 January 2018, Co-Founder

Non Academic Experience

TEMSA Skoda Sabancı Ulaşım Araçları A.Ş., R&D
SusTech Ar-Ge, Eğitim ve Danışmanlık Ltd. Şti., Kurucu ortak
Malatya Büyükşehir Belediyesi Ulaşım A.Ş. (MOTAŞ), Başmühendis