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International Researcher IDs

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Education Information

Doctorate, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, Elektrik-Elektronik Mühendisliği Anabilim Dalı, Turkey
2019 - 2024

Postgraduate, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, Elektrik-Elektronik Mühendisliği Anabilim Dalı,
Turkey 2016 - 2019

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik, Turkey 2010 - 2015

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, ELEKTRİKLİ ARAÇLAR İÇİN DOĞRUDAN MOMENT KONTROLLÜ ASENKRON MOTOR SÜRÜCÜ TASARIMI VE GERÇEKLEŞTİRİLMESİ , Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, Elektrik-Elektronik Mühendisliği Anabilim Dalı, 2024

Postgraduate, Fırçasız çift beslemeli asenkron generatörün analizi ve arıza tespiti, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, 2019

Academic Titles / Tasks

Assistant Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2024 - Continues

Research Assistant, Ondokuz Mayıs University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2016 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

1. A New Adaptive Terminal Sliding Mode Speed Control in Flux Weakening Region for DTC Controlled Induction Motor Drive

- Çavuş B., Aktaş M.
IEEE Transactions on Power Electronics, vol.39, no.1, pp.449-458, 2024 (SCI-Expanded)
- II. **MPC-Based Flux Weakening Control for Induction Motor Drive With DTC for Electric Vehicles**
Çavuş B., Aktaş M.
IEEE TRANSACTIONS ON POWER ELECTRONICS, vol.38, no.4, pp.4430-4439, 2023 (SCI-Expanded)
- III. **Optimized Thermal Modeling and Broken Rotor Bar Fault Detection of BDFIG with Discrete Wavelet Transform**
NAJAFI A., Çavuş B.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.50, no.14-15, pp.776-787, 2022 (SCI-Expanded)
- IV. **A computer-aided educational tool for vector control of AC motors in graduate courses**
Çavuş B., Aktaş M.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.28, no.3, pp.705-723, 2020 (SCI-Expanded)

Articles Published in Other Journals

- I. **KKG kullanılan hız algılayıcısız SMSM için AYK ve DMK'nin karşılaştırılması**
ÇAVUŞ B., AKTAŞ M.
ENGINEERING SCIENCES, vol.11, no.4, pp.898-903, 2022 (Peer-Reviewed Journal)
- II. **Current Reconstruction for PMSM Drives Using a DC-Link Single Current Sensor**
Aktaş M., Çavuş B.
ELECTRICA, vol.22, no.1, pp.101-108, 2022 (ESCI)
- III. **Elektrikli Araç İçin Düşük Maliyetli Bir Batarya Yönetim Sistemi Tasarımı ve Gerçekleştirilmesi**
AKTAŞ M., BAYGÜNEŞ B., KIVRAK S., ÇAVUŞ B., SÖZEN F.
Avrupa Bilim ve Teknoloji Dergisi, pp.227-238, 2020 (Peer-Reviewed Journal)
- IV. **Direct Torque Control of Permanent Magnet Synchronous Motor for Electric Vehicles**
ÇAVUŞ B., AKTAŞ M.
International Journal of Automotive Engineering and Technologies, vol.9, no.2, pp.58-65, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Fuzzy Logic Speed Control of Induction Motor in Flux Weakening Region for Electric Vehicle**
Çavuş B., Aktaş M.
2023 First International Conference on Cyber Physical Systems, Power Electronics and Electric Vehicles (ICPEEV), Bahadurgarh, India, 28 - 30 September 2023
- II. **Current Reconstruction for Induction Motor Drives using a dc-link Single Current Sensor**
AKTAŞ M., ÇAVUŞ B.
1st International Conference on Electrical-Electronics and Computer Engineering, Trabzon, Turkey, 24 - 25 July 2021
- III. **Parallel IGBT Inverter for Three Phase Induction Motor**
Sozen F., Aktaş M., Çavuş B.
5th International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2021, Ankara, Turkey, 21 - 23 October 2021, pp.577-580
- IV. **FUZZY LOGIC DIRECT TORQUE CONTROL OF PERMANENT MAGNET SYNCHRONOUS MOTOR WITH SLIDING MODE OBSERVER**
ÇAVUŞ B., KARAGÖL S.
2. Uluslararası 19 Mayıs Yenilikçi Bilimsel Yaklaşımlar Kongresi, 27 - 29 December 2019, pp.372-380
- V. **Effects of Stator Slotting On Magnetic Field In BDFIM**
ÇAVUŞ B., NAJAFI A.

I. International Technological Sciences and Design Symposium, Turkey, 27 June - 29 May 2018

- VI. **Analysis of stator slot structure effects on magnetic field in brushless doubly fed induction machine**
ÇAVUŞ B., ÖZDEMİR M.
2018 5th International Conference on Electrical and Electronic Engineering (ICEEE), İstanbul, Turkey, 3 - 05 May 2018
- VII. **Thermal Analysis of Brushless Doubly Fed Induction Machine**
Çavuş B., Najafi A.
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam, Turkey, 19 - 21 October 2018, pp.515-519
- VIII. **Analysis of Rotor Structure Effects on Magnetic Field in Brushless Doubly Fed Induction Machine**
Çavuş B., Ozdemir M.
5th International Conference on Electrical and Electronics Engineering (ICEEE), İstanbul, Turkey, 3 - 05 May 2018, pp.454-457
- IX. **YÜKSELTİLMİŞ KOSİNÜS FİLTRESİNİN ROLLOFF FAKTÖRÜNE GÖRE BAŞARIMININ BELİRLENMESİ**
ÖZBİLGİN F., TURGUT A., AYVENLİ F., DURMUŞ F., ÇAVUŞ B.
International Engineering Research Symposium, Düzce, Turkey, 11 - 13 September 2017
- X. **Determination of the Success of the Raised Cosine Filter According to Modulation Types**
TURGUT A., ÖZBİLGİN F., ÇAVUŞ B.
1st International Symposium on Multidisciplinary Studies and Innovative Technologies, Tokat, Turkey, 2 - 04 November 2017
- XI. **Load-Energy Monitoring And Control Using Cloud Computing: A Smart Grid Application**
ÇAVUŞ B., ÖZGÖNENEL O., TERZİ Ü. K.
8th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 - 21 October 2017

Supported Projects

Çavuş B., Elektrikli Araçlar İçin Hibrit Enerji Depolama Sistemi Tasarımı Ve Enerji Yönetim Sistemi Geliştirilmesi, 2023 - Continues

Gezegin C., Genç S., Çavuş B., Özgönenel O., Çelik M. S., Keskin B., Kalkışım E. S., Özbektaş S., Taşkın A., Üstün Ercan S., et al., AB IPA Project, This Youth Can Do A Good Job" (Bu Gençlikten İyi İş Çıkar)/ TREESP1.2NEETPRO/P-03/160, 2023 - 2024

Aktaş M., Çavuş B., Project Supported by Higher Education Institutions, Efficiency Challenge Elektrikli Araç Tasarımı ve Gerçekleştirilmesi, 2022 - 2022

Zenit Ö., Çavuş B., Furuncu B., TUBITAK Project, GÜNES ENERJİSİ İLE MOTORLU TASITLARDA YAKIT TASARRUFU, 2014 - 2015

Scientific Refereeing

IET ELECTRIC POWER APPLICATIONS, Journal Indexed in SCI-E, January 2024

IEEE TRANSACTIONS ON POWER ELECTRONICS, Journal Indexed in SCI-E, December 2023

International Journal of Automotive Science and Technology, National Scientific Refreed Journal, April 2023