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ScopusID: 57034341400

Yoksis Researcher ID: 32396

Education Information

Post Doctorate, University of Illinois at Urbana-Champaign, Electrical And Computer Engineering, Electrical Engineering, United States Of America 2011 - 2012

Post Doctorate, University of Illinois at Urbana-Champaign, Electrical And Computer Engineering, Electrical Engineering, United States Of America 2007 - 2008

Doctorate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 1999 - 2006

Postgraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 1996 - 1999

Undergraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 1991 - 1995

Foreign Languages

English

Dissertations

Doctorate, Fırçasız doğru akım motorunun algılayıcısız kontrolünde dalgacık tekniğinin uygulanması, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, 2006

Postgraduate, Ünlü motorun benzetim ve tasarımı, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, 1999

Research Areas

Technical Sciences, Electrical and Electronics Engineering, Power Electronics, Electrical Machine Theory and Design, Electric Motor Drivers, Power Converters

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2020 - Continues

Assistant Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2018 - 2020

Assistant Professor, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, 2014 - 2018

Research Assistant, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, 1999 - 2014

Academic and Administrative Experience

Vice Dean, Istanbul Technical University, 2020 - 2021

Deputy Head of Department, Istanbul Technical University, Elektrik Mühendisliği Bölümü, 2015 - 2020

Advising Theses

Yılmaz M., Elektrikli araçlar için kablosuz şarj sistemi tasarımı ve optimizasyonu, Postgraduate, B.ÖZBEY(Student), 2020

Yılmaz M., Çamaşır makinası uygulamasında gan yarı iletkenanahtarlar ile yüksek güç yoğunluklu ve verimli evirici tasarımı, Postgraduate, T.YAZICI(Student), 2019

Yılmaz M., SÜREKLİ MIKNATISLI SENKRON MOTORUN FPGA İLE KONUM TAHMİN YÖNTEMİ İLE ALAN YÖNLENDİRMELİ KONTROLLÜ SÜRÜCÜ TASARIMI VE GERÇEKLENMESİ, Postgraduate, A.YILDIZ(Student), 2019

Yılmaz M., Design and implementation of sensorless vector controlled drive for PMSMs, Postgraduate, B.GÖRDÜK(Student), 2019

Yılmaz M., Hibrit elektrikli bir kamyon için bulanık mantık tabanlı enerji yönetim sistemi algoritmalarının geliştirilmesi, Postgraduate, H.SÖLEK(Student), 2019

Yılmaz M., A novel method to estimate state of charge of li-based batteries, Postgraduate, E.İPEK(Student), 2019

Yılmaz M., Elektrikli araç tahrik sistemlerinde kullanılan SMSM'nin minimum kayıp kontrolü, Postgraduate, F.AYDOĞAN(Student), 2019

Yılmaz M., Digitally controlled buck converters for current regulated applications, Doctorate, A.UĞUR(Student), 2019

Yılmaz M., Cost optimization of flyback converter using genetic algorithm, Postgraduate, G.BALCI(Student), 2019

Yılmaz M., Elektrikli Araçlar için Gömülü Miknatıslı Senkron Motor Tasarım Metodolojisi ve Gerçeklenmesi, Postgraduate, H.Kurnaz(Student), 2018

Yılmaz M., Üç seviyeli NPC ara devreli DC/DC dönüştürücünün kontrolü ve MMA kaynak makinesi uygulaması, Postgraduate, M.SABRİYE(Student), 2017

Yılmaz M., ÜÇ SEVİYELİ NPC EVİRİCİ ARA DEVRELİ BİR DC / DC DÖNÜŞTÜRÜCÜNÜN KONTROLÜ VE MMA KAYNAK MAKİNESİ UYGULAMASI, Postgraduate, M.Selik(Student), 2016

Jury Memberships

Post Graduate, Elektrik Mühendisliği Yüksek Lisans Tez Savunması, İstanbul Teknik Üniversitesi, October, 2018

Post Graduate, Elektrik Mühendisliği Yüksek Lisans Tez Savunması, İstanbul Teknik Üniversitesi, September, 2018

Post Graduate, Elektrik Mühendisliği Yüksek Lisans Tez Savunması, İstanbul Teknik Üniversitesi, July, 2018

Post Graduate, Elektrik Mühendisliği Yüksek Lisans Tez Savunması, İstanbul Teknik Üniversitesi, June, 2018

Post Graduate, Elektrik Mühendisliği Yüksek Lisans Tez Savunması, İstanbul Teknik Üniversitesi, June, 2018

Competition, TÜBİTAK, TÜBİTAK, June, 2018

Doctorate, Elektrik-Elektronik Mühendisliği Doktora Tez Savunması, Okan Üniversitesi, August, 2017

Post Graduate, Elektrik Mühendisliği Yüksek Lisans Tez Savunması, İstanbul Teknik Üniversitesi, July, 2017

Post Graduate, Elektrik Mühendisliği Yüksek Lisans Tez Savunması, İstanbul Teknik Üniversitesi, July, 2017

Post Graduate, Elektrik Mühendisliği Yüksek Lisans Tez Savunması, İstanbul Teknik Üniversitesi, June, 2017

Post Graduate, Elektrik Mühendisliği Yüksek Lisans Tez Savunması, İstanbul Teknik Üniversitesi, June, 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A novel method for SOC estimation of Li-ion batteries using a hybrid machine learning technique**
Ipek E., Yilmaz M.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.29, no.1, pp.18-31, 2021 (SCI-Expanded)
- II. **Design procedure and implementation of a high-efficiency PMSM with reduced magnet-mass and torque-ripple for electric vehicles**
Araz H. K., Yilmaz M.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.2, pp.1089-1109, 2020 (SCI-Expanded)
- III. **Asymmetric slope compensation for digital hybrid current mode control of a three-level flying capacitor buck converter**
Ugur A., Yilmaz M.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.4, pp.2345-2359, 2020 (SCI-Expanded)
- IV. **Digital hybrid current mode control for DC-DC converters**
Ugur A., Yilmaz M.
IET POWER ELECTRONICS, vol.12, no.4, pp.891-898, 2019 (SCI-Expanded)
- V. **Comprehensive design and analysis of a PMaSynRM for washing machine applications**
Tap A., Xheladini L., Yilmaz M., İmeryüz M., Asan T., Ergene L.
IET ELECTRIC POWER APPLICATIONS, vol.12, no.9, pp.1311-1319, 2018 (SCI-Expanded)
- VI. **Limitations/capabilities of electric machine technologies and modeling approaches for electric motor design and analysis in plug-in electric vehicle applications**
Yilmaz M.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.52, pp.80-99, 2015 (SCI-Expanded)
- VII. **Review of the Impact of Vehicle-to-Grid Technologies on Distribution Systems and Utility Interfaces**
Yilmaz M., KREIN P. T.
IEEE TRANSACTIONS ON POWER ELECTRONICS, vol.28, no.12, pp.5673-5689, 2013 (SCI-Expanded)
- VIII. **Extended Kalman filter application for high-noise cancelation in control telemetry channels of oil electric submersible pump**
Ali-Zade P., HAJIYEV C., Hajiyeva U., YILMAZ M.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, vol.110, pp.109-118, 2013 (SCI-Expanded)
- IX. **Review of Battery Charger Topologies, Charging Power Levels, and Infrastructure for Plug-In Electric and Hybrid Vehicles**
Yilmaz M., KREIN P. T.
IEEE TRANSACTIONS ON POWER ELECTRONICS, vol.28, no.5, pp.2151-2169, 2013 (SCI-Expanded)
- X. **Sensorless Control of Brushless DC Motor Based on Wavelet Theory**
Yilmaz M., TUNCAY R. N., USTUN Ö., KREIN T. P.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.37, no.10, pp.1063-1080, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Extended Back-EMF Based Industrial Sensorless Drive System for PMSMs**
Gördük B., Yilmaz M.
Sakarya University Journal of Science (SAUJS), vol.25, no.4, pp.1061-1074, 2021 (Peer-Reviewed Journal)

- II. **Sürekli Mıknatıs Destekli Senkron Relüktans Motorlarda Mıknatıs Yerleşiminin Performansa Etkisi**
Yılmaz M.
EMO Bilimsel Dergi, vol.8, no.15, pp.11-15, 2018 (Peer-Reviewed Journal)
- III. **A GaN-Based Synchronous Buck Converter for High Power Laser Diode Drive Applications**
Yılmaz M., Uğur A.
BALKAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING, vol.6, no.32, pp.62-68, 2018 (Peer-Reviewed Journal)
- IV. **Design and Optimization of a High Power Density and Efficiency Boost PFC**
Fincan B., YILMAZ M., GÖYNÜŞEN A., ERENAY H. K.
BALKAN JOURNAL OF ELECTRICAL COMPUTER ENGINEERING, vol.5, pp.50-59, 2017 (Peer-Reviewed Journal)
- V. **Fırçasız Doğru Akım Motorunun Algılayıcısız Kontrolünde Dalgacık Tekniğinin Uygulanması**
YILMAZ M., TUNCAY R. N., ÜSTÜN Ö.
İstanbul Teknik Üniversitesi Dergisi/d, pp.73-84, 2006 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Intelligent Vehicles and Grid Interaction, Infrastructure, Systems, Operations, and Scenarios, Conclusions**
YILMAZ M., PHILIP T K., XIANG C., XIAOYA H., IQBAL H., KOICHI I., RUSSELL L., YAOYU L., HIROAKI N., JOACHIM T., et al.
in: Smart Grid Research Vehicular IEEE Smart Grid Vision for Vehicular Technology 2030 and Beyond, , Editor, IEEE SA, New-York, 2014

Refereed Congress / Symposium Publications in Proceedings

- I. **250W GaN Hybrid BCM Micro-inverter Design for Avionic Applications**
Cimendag A., Duman T., Yılmaz M.
37th Annual IEEE Applied Power Electronics Conference and Exposition, APEC 2022, Texas, United States Of America, 20 - 24 March 2022, pp.838-842
- II. **A Comparison of Sensorless MTPA and Quasi-MPF Control for VSD-PMaSynRM**
TAP A., AKGÜL K., ERGENÇ A. F., YILMAZ M., ERGENE L.
47th Annual Conference of the IEEE Industrial Electronics Society (IECON 2021), Toronto, Canada, 13 October 2021
- III. **Design and Analysis of a High Power Density Brushless DC Motor for a Multi-Rotor Unmanned Aircraft**
Ozer K., Yılmaz M.
13th International Conference on Electrical and Electronics Engineering, ELECO 2021, Virtual, Bursa, Turkey, 25 - 27 November 2021, pp.378-382
- IV. **Impact Analysis of Smart EV Charging Systems in Renewable-Based Microgrid**
Ayci D., Yılmaz M.
13th International Conference on Electrical and Electronics Engineering, ELECO 2021, Virtual, Bursa, Turkey, 25 - 27 November 2021, pp.1-5
- V. **Digital Hybrid Current Mode Control with Asymmetric Slope Compensation for Three-Level Flying Capacitor Buck Converter**
Yılmaz M.
Aegean Conference on Electrical Machines and Power Electronics - ACEMP OPTIM 2019, İstanbul, Turkey, 27 - 29 August 2019, pp.1-6
- VI. **Development of Fuzzy Logic Based Energy Management Control Algorithm for a Plug-In HEV with Fixed Routed**

Solek H., Muderrisoglu K., Armutlu C., Yilmaz M.

International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) / International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), İstanbul, Turkey, 27 - 29 August 2019, pp.590-595

VII. State-of-Charge Estimation of Li-ion Battery Cell using Support Vector Regression and Gradient Boosting Techniques

Ipek E., Eren M. K., Yilmaz M.

International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) / International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), İstanbul, Turkey, 27 - 29 August 2019, pp.604-609

VIII. Thermal and Mechanical Analysis of PM Assisted Synchronous Reluctance Motor for Washing Machines

LİRİDON X., TAP A., İMERYÜZ M., AŞAN T., YILMAZ M., ERGENE L.

ELECO 2017 10th International Conference on Electrical and Electronics Engineering, 30 November - 02 December 2017

IX. Sürekli Mıknatıs Destekli Senkron Relüktans Motorlarda Mıknatıs Yerleşiminin Performansa Etkisi

TAP A., Xheladini L., Aşan T., İMERYÜZ M., YILMAZ M., ERGENE L.

1. Ulusal Enerji Dönüşümü Kongresi, Elazığ, Turkey, 21 - 22 September 2017

X. Effects of the rotor design parameters on the torque production of a PMSynRM for washing machine applications

Tap A., Xheladini L., Aşan T., İmeryüz M., Yılmaz M., Ergene L.

International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, 25 - 27 May 2017, pp.370-375

XI. Sensorless Speed Control of Permanent Magnet Synchronous Motor with Back EMF Based Observer

NAK H., GÜLBAHÇE M. O., YILMAZ M., ERGENÇ A. F., GÖKAŞAN M., ÇALIŞKAN F.

Otomatik Kontrol Türk Milli Komitesi 2015, Denizli, Turkey, 10 - 12 September 2015

XII. Sürekli Mıknatıslı Senkron Motorun Endüklenen Gerilim Tabanlı Gözleyici ile Algılayıcısız Hız Kontrolü

Nak H., Gülbahçe M. O., Yılmaz M., Ergenç A. F., Gökaşan M., Çalışkan F.

2015 Türkiye Otomatik Kontrol Ulusal Toplantısı, Denizli, Turkey, 10 - 12 September 2015, pp.716-721

XIII. Modeling Simulation and Study by Oil Industry Computer Asisted Laboratory Mechatronic Systems

ÜSTÜN Ö., YILMAZ M., PARVİZ A., TUNCAY R. N., MAMEDOV H.

Int. Conference on Education in Mechatronics, Ostrava, Czech Republic, 24 September 2013

XIV. The Search for Adaptive Methods Filtering Out High Noises and Their Application on Oil Complexes Control Telemetry Systems

YILMAZ M., ÜSTÜN Ö., PARVİZ A., TUNCAY R. N.

IEEE International Electric Machines and Drives Conference, IEMDC 2013, Chicago, United States Of America, 12 - 15 May 2013

XV. Valuations of Adaptive Methods for Filtering Out High-Noises in Oil Complexes Telemetry Systems

Ustun O., Yilmaz M., Mamedov H., Zada P. A., TUNCAY R. N.

7th International Conference on Application of Information and Communication Technologies (AICT), Baku, Azerbaijan, 23 - 25 October 2013, pp.304-308

XVI. Review of Benefits and Challenges of Vehicle to Grid Technology

YILMAZ M., PHİLİP T K.

IEEE Energy Conversion Congress and Exposition (ECCE 2012), North-Carolina, United States Of America, 15 - 20 September 2012

XVII. Review of Integrated Charging Methods for Plug In Vehicles

YILMAZ M., PHİLİP T K.

IEEE International Conference on Vehicular Electronics and Safety (ICVES'12), İstanbul, Turkey, 24 - 27 July 2012

XVIII. General Design Requirements and Analysis of Roadbed Inductive Power Transfer System for Dynamic Electric Vehicle Charging

YILMAZ M., TUTKU B., PHİLİP T K.

IEEE Transportation Electrification Conference and Expo (ITEC 2012), Michigan, United States Of America, 18 - 20 June 2012

XIX. Review of Charging Power Levels and Infrastructure for Plug In Electric and Hybrid Vehicles

YILMAZ M., PHİLİP T K.

IEEE International Electric Vehicle Conference (IEVC 2012), South-Carolina, United States Of America, 4 - 08 March 2012

XX. Design and Implementation of an Electric Drive System for In Wheel Motor Electric Vehicle Applications

TUNCAY R. N., ÜSTÜN Ö., YILMAZ M., GÖKÇE C., UTKU K.

IEEE Vehicle Power and Propulsion Conference, VPPC 2011, Chicago, Chicago, United States Of America, 6 - 09 September 2011

XXI. Car and renewable energy storage accumulators active life extension and minimization of hazardous waste eco impact

ÜSTÜN Ö., YILMAZ M., PARVİZ A., TUNCAY R. N.

IEEE Vehicle Power and Propulsion Conference, VPPC 2010, Lille, France, 1 - 03 September 2010

XXII. Ağır Şehir İçi Trafik Koşulları İçin Motor Miline Entegre Dur Çalıştır Özellikli Hafif Hibrit Elektrikli Aracın Elektrikli Güç Aktarma Sisteminin Geliştirilmesi

CAN G., UTKU K., YILMAZ M., ŞENGÖR A. M. C., MERT Ç., ÜSTÜN Ö., TUNCAY R. N.

5. Otomotiv teknolojileri kongresi, Bursa, Turkey, 7 - 08 June 2010

XXIII. Energy Management Method for Solar Race Car Design and Application

ÜSTÜN Ö., YILMAZ M., GÖKÇE C., UTKU K., TUNCAY R. N.

IEEE International Electric Machines and Drives Conference, IEMDC 2009, Miami, United States Of America, 3 - 06 May 2009

XXIV. Design Optimisation of a Solar Race Car with Energy Management Approach

TUNCAY R. N., ÜSTÜN Ö., YILMAZ M., GÖKÇE C., UTKU K.

2nd International Conference on Automotive Technologies, ICAT 2008, İstanbul, Turkey, 13 - 14 November 2008

XXV. On the Feasibility of Using Large Scale Numerical Electric Machine Field Analysis Software in Complex Electric Drive System Design Tools

TİMOTHY C O., PHİLİP T K., YILMAZ M., ANDY F.

Eleventh IEEE Workshop on Control and Modeling for Power Electronics (COMPEL'08), Zürich, Switzerland, 17 - 20 August 2008

XXVI. Capabilities of Finite Element Analysis and Magnetic Equivalent Circuits for Electrical Machine Design

YILMAZ M., PHİLİP T K.

IEEE 39th Power Electronics Specialists Conference, Rodos, Greece, 15 - 19 June 2008

XXVII. Energy Flow Modeling Method for Simulation of a Series Parallel Hybrid Electrical Vehicle

TUNCAY R. N., ÜSTÜN Ö., GÖKÇE C., YILMAZ M.

AUTOCOM Workshop on Hybrid Vehicle Modeling and Control, İstanbul, Turkey, 12 - 13 June 2007

XXVIII. Güneş Enerjili Yarış Aracının Elektrik Tasarım Ölçütlerinin Yol Performans Simülasyonunun ve Enerji Yönetim Sisteminin Geliştirilmesi

TUNCAY R. N., ÜSTÜN Ö., YILMAZ M., GÖKÇE C., ARDA T., UTKU K., KAN T., ŞAHİN A.

ELECO'06, Bursa, Turkey, 6 - 08 December 2006

XXIX. Modeling and Simulation of a Serial Parallel Hybrid Electrical Vehicle

GÖKÇE C., ÜSTÜN Ö., YILMAZ M., TUNCAY R. N.

International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 8 - 10 December 2005

XXX. Fırçasız Doğru Akım Makinasının (BLDC) MATLAB/Simulink Ortamında Modellenmesi ve Algılayıcısız Kontrolü

YILMAZ M., TUNCAY R. N., ÜSTÜN Ö.

Conference for Computer-Aided Engineering and System Modeling with Exhibition, İstanbul, Turkey, 9 - 10 December 2004

- XXXI. **A Wavelet Study of Sensorless Control of Brushless DC Motor through Rapid Prototyping Approach**
YILMAZ M., TUNCAY R. N., ÜSTÜN Ö.
IEEE International Conference on Mechatronics, İstanbul, Turkey, 3 - 05 June 2004
- XXXII. **Rapid Control Prototyping Approach to Fuzzy Speed Control of Brushless DC Motor**
TUNCAY R. N., ZEYNEP E., YILMAZ M., ÜSTÜN Ö.
Int. Conference on Electrical and Electronics Engineering, Bursa, Turkey, 4 - 06 December 2003
- XXXIII. **Sensorless Drive of Brushless DC Motor Based Upon Wavelet Analysis**
YILMAZ M., TUNCAY R. N., ÜSTÜN Ö.
International Conference on Electrical & Electronics Engineering, Bursa, Turkey, 4 - 06 December 2003
- XXXIV. **Development of Power Electronic Simulation Software**
ÜSTÜN Ö., TUNCAY R. N., YILMAZ M.
International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 7 - 11 December 2001
- XXXV. **A study on The Conventional and Fuzzy Control Steel cutting Process**
BÜLENT Y., YILMAZ M., TUNCAY R. N.
Int. Conference on Electrical and Electronics Engineering, Bursa, Turkey, 7 - 11 December 2001
- XXXVI. **A User Friendly Design Package for Universal Motors**
YILMAZ M., TUNCAY R. N., CÜNEYT Ö.
International AEGEAN Conference on Electrical Machines and Power Electronics, ACEMP 2001, İzmir, Turkey, 13 - 15 June 2001
- XXXVII. **The Design Methodology to Develop New Generation Universal Motors for Vacuum Cleaners**
TUNCAY R. N., YILMAZ M., CÜNEYT Ö.
IEEE International Electric Machines and Drives Conference, IEMDC 2001, Massachusetts, United States Of America, 6 - 09 June 2001
- XXXVIII. **Simulation of power electronic circuits using VisSim software A study on toolbox development**
ÜSTÜN Ö., YILMAZ M., TUNCAY R. N.
IEEE Workshop on Computers in Power Electronics, Virginia, United States Of America, 13 - 15 September 2000
- XXXIX. **Simulation of power electronic circuits using VisSim (TM) software: A study on toolbox development**
Ustun O., Yilmaz M., Tuncay R.
7th Workshop on Computer in Power Electronics (COMPEL 2000), Virginia, United States Of America, 16 - 18 July 2000, pp.183-187
- XL. **Theoretical and experimental study of universal motor for vacuum cleaners**
TUNCAY R. N., YILMAZ M., ÖNCÜLOĞLU C., Gürol K.
International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 4 - 06 November 1999
- XLI. **Yüksek Devir Hızlarında Çalışan Universal Motorlar İçin Tasarım Sürecinin Geliştirilmesi**
YILMAZ M., TUNCAY R. N., CÜNEYT Ö., GÜROL K.
Elektrik & Elektronik Bilgisayar Mühendisliği 8. Ulusal Kongresi, Gaziantep, Turkey, 8 - 09 September 1999

Supported Projects

Yılmaz M., TUBITAK Project, E5000 Tip Lokomotif Geliştirilmesi, 2017 - Continues

Yılmaz M., TUBITAK Project, Çamaşır Makinaları İçin Sürekli Mıknatıs Destekli Senkron Relüktans Motor Tasarım ve Eniyilemesi, 2015 - Continues

Erol O. K., Yılmaz M., TUBITAK Project, Elektrikli Kişisel Ulaşım Çözümleri Tasarım ve Üretim, 2022 - 2023

Ergene L., Yılmaz M., Ergenç A. F., TUBITAK Project, Pmasynrm'Nin Beyaz Eşya Uygulamaları İçin Yenilikçi Bir Gerçek Zamanlı Model Tanılama Ve Kontrol Sistemi Tasarımı, 2021 - 2023

Ergene L., Tap A., Yılmaz M., Project Supported by Higher Education Institutions, Çamaşır Makinesi Uygulamaları için Geniş Hız Aralığına Sahip Algılayıcısız Mıknatıs Destekli Senkron Relüktans Motor Sürücü Tasarımı, 2019 - 2022

Yılmaz M., Project Supported by Higher Education Institutions, Current Source Converters for High Power Laser Diode Driver Applications, 2016 - 2020

Yılmaz M., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Kalıcı Mıknatıslı Senkron Motorlar için Doğrudan

Tork Kontrollü Sürücü Devresi Tasarımı, 2016 - 2018

Yılmaz M., Project Supported by Higher Education Institutions, ENERGY MANAGEMENT METHOD FOR SOLAR CAR DESIGN AND APPLICATION, 2009 - 2018

Yılmaz M., Project Supported by Higher Education Institutions, Capabilities of Finite Element Analysis and Magnetic Equivalent Circuits for Electrical Machine Analysis and Design, 2008 - 2018

Yılmaz M., TUBITAK Project, Beyaz Eşya Motorları İçin Özgün Alan Yönlendirmeli Kontrol Yönteminin Geliştirilmesi, 2014 - 2016

Yılmaz M., EU Framework Program Project, Improved Magnets for Energy Generation through Advanced Tidal Technology, 2015 - 2015

Yılmaz M., TUBITAK Project, Elektrikli Araçlar İçin 7.2kW Harici Şarj Ünitesi Tasarımı, 2014 - 2015

Yılmaz M., Other International Funding Programs, The Global Climate and Energy Project, 2011 - 2012

Yılmaz M., Project Supported by Other Private Institutions, Start-Stop Mild Hibrit Sisteminin Geliştirilmesi, 2008 - 2010

Yılmaz M., TUBITAK Project, Elektrikli ve Karma Araçlar için Tekerlek İçeriden Doğrudan Sürüşlü Bir Akıllı Elektrikli Tahrik ve Yol Tutuş Sisteminin Geliştirilmesi, 2006 - 2008

Yılmaz M., TUBITAK Project, ELİT-2 Paralel Hibrit Elektrikli Araç Projesi, 2004 - 2005

Yılmaz M., TUBITAK Project, Mikseler için Üniversal Motor Tasarımı ve Geliştirilmesi, 1999 - 2000

Yılmaz M., Project Supported by Other Official Institutions, Elektrikli Süpürge Makinası için Teknoloji Geliştirilmesi, 1996 - 1998

Patent

Yılmaz M., Vehicle Seat Motion Mechanism, Patent, CHAPTER H Electricity, Standard Registration

Yılmaz M., Taşıt Koltuğu Hareket Düzenek, Patent, CHAPTER H Electricity, Standard Registration

Memberships / Tasks in Scientific Organizations

SAE, Member, 2012 - Continues

IEEE, Member, 1999 - Continues

Elektrik Mühendisleri Odası, Member, 1996 - Continues

Scientific Refereeing

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, National Scientific Refreed Journal, March 2020

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, National Scientific Refreed Journal, April 2019

The Turkish Journal of Electrical Engineering & Computer Sciences, SCI Journal, November 2018

IEEE Transactions on Vehicular Technology, SCI Journal, November 2018

IET Power Electronics, SCI Journal, July 2018

IEEE Transaction on Vehicular Technology, SCI Journal, July 2018

Taylor & Francis – Electric Power Components & Systems, SCI Journal, May 2018

IEEE Transaction on Industrial Electronics, SCI Journal, March 2018

Taylor & Francis – Electric Power Components & Systems, SCI Journal, February 2018

IEEE Transaction on Industrial Electronics, SCI Journal, August 2017

IEEE Transaction on Vehicular Technology, SCI Journal, May 2017

IEEE Transactions on Applied Superconductivity, SCI Journal, May 2017

IET Electric Power Applications, SCI Journal, May 2017

IEEE Transaction Power Electronics, SCI Journal, January 2017

Taylor & Francis – Electric Power Components & Systems , SCI Journal, November 2016
IEEE Transaction on Power Electronics, SCI Journal, September 2016
Energies, SCI Journal, June 2016
IEEE Transaction on Power Electronics, SCI Journal, June 2016
IEEE Transactions on Intelligent Transportation Systems, SCI Journal, May 2016
IEEE Transaction on Power Electronics, SCI Journal, October 2015
Energies, SCI Journal, September 2015
Taylor & Francis – Electric Power Components & Systems , SCI Journal, August 2015
Taylor & Francis – Electric Power Components & Systems , SCI Journal, June 2015
IEEE Transaction on Smart Grid, SCI Journal, June 2015
IEEE Transaction on Power Systems, SCI Journal, March 2015
IEEE Transaction on Power Systems, SCI Journal, September 2014
IEEE Transaction on Smart Grid, SCI Journal, September 2014
Taylor & Francis – Electric Power Components & Systems , SCI Journal, March 2014
Taylor & Francis – Electric Power Components & Systems , SCI Journal, June 2013

Scientific Consultations

ALTINAY Havacılık, Project Consultancy, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, Turkey, 2021 - 2022

Metrics

Publication: 63
Citation (WoS): 2198
Citation (Scopus): 2630
H-Index (WoS): 7
H-Index (Scopus): 8

Congress and Symposium Activities

IEEE International Electric Machines and Drives Conference, IEMDC, Attendee, Illinois, United States Of America, 2013
IEEE International Conference on Vehicular Electronics and Safety (ICVES'12), Attendee, İstanbul, Turkey, 2012
IEEE International Electric Vehicle Conference (IEVC 2012), Attendee, North-Carolina, United States Of America, 2012
IEEE Vehicle Power and Propulsion Conference, Attendee, Illinois, United States Of America, 2011
IEEE International Electric Machines and Drives Conference, Attendee, Florida, United States Of America, 2009
IEEE 39th Power Electronics Specialists Conference, Attendee, Rodos, Greece, 2008
AUTOCOM Workshop on Hybrid Vehicle Modeling and Control, Attendee, İstanbul, Turkey, 2007
International Conference on Electrical and Electronics Engineering, Bursa, Attendee, Bursa, Turkey, 2005
IEEE International Conference on Mechatronics, Attendee, İstanbul, Turkey, 2004
International Conference on Electrical & Electronics Engineering, Attendee, Bursa, Turkey, 2003
International Conference on Electrical and Electronics Engineering, Attendee, Bursa, Turkey, 2001
International AEGEAN Conference on Electrical Machines and Power Electronics, ACEMP, Attendee, İzmir, Turkey, 2001
IEEE International Electric Machines and Drives Conference, Attendee, Massachusetts, United States Of America, 2001
ELECO, Attendee, Bursa, Turkey, 1999

Invited Talks

ELECO 2020, Conference, EMO Bursa, Turkey, November 2020

EEMKON 2019, Conference, EMO İstanbul, Turkey, November 2019

Scholarships

2219 - Doktora Sonrası Araştırma Bursu, TUBITAK, 2011 - Continues

Doktora Sonrası Araştırma Bursu, University, 2007 - Continues

Koç Eğitim Vakfı Eğitim Bursu, Foundation, 2002 - Continues

Awards

Yılmaz M., Best Paper Award, I E E E Pemc 2022, September 2022

Yılmaz M., En İyi Poster Bildiri Ödülü, IEEE International Electric Machines and Drives Conference, IEMDC 2009, May 2009

Non Academic Experience

EVINNO

University of Illinois at Urbana Champaign

University of Illinois at Urbana Champaign

SENUR Elektrik Motorları