

Assoc. Prof. MUHAMMET GARİP

Personal Information

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Education Information

Doctorate, Yildiz Technical University, Fen Bilimleri, Elektrik, Turkey 1998 - 2002

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Elektrik, Turkey 1995 - 1997

Undergraduate, Yildiz Technical University, Elektrik Mühendisliği Bölümü, Elektrik, Turkey 1990 - 1994

Foreign Languages

English, C1 Advanced

Research Areas

Social Sciences and Humanities, Science, Technology and Society, Science and Technological Policy Studies, Electrical and Electronics Engineering, Energy, Lighting Technology, Power Electronics, Electrical Machine Theory and Design, Electric Motor Drivers, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Department Of Mechatronics Engineering, Mechatronics, 2018 - Continues

Assistant Professor, Yildiz Technical University, Department Of Mechatronics Engineering, Mechatronics, 2009 - 2018

Advising Graduates (Non-Thesis)

Garip M., Kentsel Aydınlatma ve Önündeki Engeller, Masters (Non-Thesis), M.Alparslan(Student), 2012

Jury Memberships

Competition, Kuş Evleri Tasarım Yarışması, Yildiz Technical University, March, 2018

Competition, IstanbulLight Aydınlatma Tasarım Yarışması, Yildiz Technical University, April, 2011

Competition, Ödüllü Yarışma, Yildiz Technical University, September, 2008

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Acoustic Noise Mitigation of Switched Reluctance Machines With Leaf Springs

- Yaşa Y., Sozer Y., GARİP M.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol.70, no.2, pp.1250-1260, 2023 (SCI-Expanded)
- II. **Fractional-order controllers for switching DC/DC converters using the K-factor method: Analysis and circuit realization**
Cengelci E., GARİP M., Elwakil A. S.
INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS, vol.50, no.2, pp.588-613, 2022 (SCI-Expanded)
- III. **High-power density switched reluctance machine development for high-speed spindle applications**
Yasa Y., Sozer Y., GARİP M.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.3, pp.1572-1586, 2018 (SCI-Expanded)
- IV. **High-speed switched reluctance machine: natural frequency calculation and acoustic noise prediction**
YAŞA Y., Sozer Y., GARİP M.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.2, pp.999-1010, 2018 (SCI-Expanded)
- V. **Loss analysis of high speed switched reluctance machine with integrated simulation methods**
Yasa Y., Sozer Y., GARİP M.
INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, vol.56, no.3, pp.479-497, 2018 (SCI-Expanded)
- VI. **Three-axis gap clearance I-PD controller design based on coefficient diagram method for 4-pole hybrid electromagnet**
Erkan K., Yalçın B. C., Garip M.
AUTOMATIKA, vol.58, pp.147-167, 2017 (SCI-Expanded)
- VII. **Investigating Operating Modes and Converter Options of Dual Winding Permanent Magnet Synchronous Machines for Hybrid Electric Vehicles**
Mese E., Yasa Y., Akca H., AYDENİZ M. G., GARİP M.
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.30, no.1, pp.285-295, 2015 (SCI-Expanded)
- VIII. **An adaptive compensator for a vehicle driven by DC motors**
DERDIYOK A., SOYSAL B., ARSLAN F., OZOGLU Y., Garip M.
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.342, no.3, pp.273-283, 2005 (SCI-Expanded)
- IX. **New pole tip shapes mitigating torque ripple in short pitched and fully pitched switched reluctance motors**
OZOGLU Y., Garip M., MESE E.
ELECTRIC POWER SYSTEMS RESEARCH, vol.74, no.1, pp.95-103, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **Tepe akım modu kontrollü Zeta dönüştürücünün küçük işaret analizi (Small signal analysis of peak current mode controlled Zeta converter)**
YILMAZ A., GARİP M.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü, vol.21, no.2, pp.270-277, 2017 (Peer-Reviewed Journal)
- II. **Torque Ripple Reduction in Fully Pitched Switched Reluctance Motors for Bipolar Excitation Pattern**
Garip M., Özoğlu Y., Erdoğan N., Kasapoğlu A.
Electromotion Journal, vol.1, no.4, pp.568-573, 2003 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Analysis and simulation of cable crosstalk**
GARİP M., Solak V., Efendiođlu H. S., olak B.
IV International Electromagnetic Compatibility Conference, Ankara, Turkey, 24 September 2017, vol.3, no.5, pp.80-85
- II. **Annenin Bebek Uyutma Hareketinin Modellenmesi ve Bu Hareketi Tekrarlayan Prototip Beşik Tasarımı (Rocking Motion of the Baby Sleeping on the Mother's Lap: Modeling and Prototype Automatic Swing Cradle Design)**
Elmas F., YILMAZ A., GARİP M.
Elektrik-Elektronik, Bilgisayar, Biyomedikal Mühendislikleri Bilimsel Toplantısı, İstanbul, Turkey, 20 April 2017, pp.1-4
- III. **A New Electric Accessory Drive System for Hybrid Electric Vehicles**
Mese E., Yasa Y., Akca H., AYDENİZ M. G., GARİP M.
IEEE Energy Conversion Congress and Exposition (ECCE), North-Carolina, United States Of America, 15 - 20 September 2012, pp.1909-1916
- IV. **I-PD Controller Design for a 4-Pole Hybrid electromagnet on the Basis of Coefficient Diagram Method**
GARİP M.
ISCSE 2011, 01 June 2011
- V. **İstanbul Büyükşehir Belediyesinde Sürdürülebilir Enerji Verimlilik Politikaları**
Garip M., Kılıç B.
7. Ulusal Temiz Enerji Günleri, Ankara, Turkey, 17 - 19 December 2008, vol.1, pp.57-64
- VI. **Energy Efficiency Policy and Projects for Istanbul Metropolitan Municipality**
Garip M., Kılıç B.
IAEE International Conference, İstanbul, Turkey, 18 - 20 June 2008, vol.1, pp.264
- VII. **İstanbul İçin Sürdürülebilir Şehir Aydınlatma Politikası**
Garip M., Kılıç B.
IV. Ulusal Aydınlatma Sempozyumu, İzmir, Turkey, 13 - 15 December 2007, vol.1, pp.61-66
- VIII. **A Sustainable City Lighting Policy for İstanbul**
Garip M.
A Sustainable City Lighting Policy for İstanbul, 01 December 2007
- IX. **Yerel Yönetimlerde Enerji Verimliliđi**
Garip M., Tuna S.
II. Enerji Verimliliđi ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 - 18 May 2007, vol.1, pp.95-98
- X. **İstanbul Boğazından Elektrik Üretmek Üzerine Bir Ataştırma**
Garip M., Can O.
IV. Ulusal Temiz Enerji Sempozyumu, Isparta, Turkey, 25 - 27 May 2006, vol.1, pp.564-567
- XI. **DC Raylı Ulaşım Sistemlerinde Kaçak Akımların Analizi ve Önleme Yöntemleri**
Sönmez İ., Garip M., Birbir Y.
I. Uluslararası Mesleki ve Teknik Eğitim Teknolojileri Kongresi, İstanbul, Turkey, 05 September 2005, vol.1, pp.1-9
- XII. **Evsel Katı Atıklardan Enerji Üretilmesinde Gazlaştırma Yöntemi**
Garip M., Can O.
I. Enerji Verimliliđi ve Kalitesi Sempozyumu , Kocaeli, Turkey, 17 - 18 May 2005, vol.2, pp.345-349
- XIII. **İstanbul Metro ve Hafif Metrosunda Enerji Verimliliđi Çalışmaları**
Garip M., Tuna S.
I. Enerji Verimliliđi ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 - 18 May 2005, vol.1, pp.92-97
- XIV. **Reactive Power Compensation for Three Phase AC Non Linear Loads Using an Active Power Filters**
Erdoğan N., Garip M.
International Advanced Technologies Symposium, Ankara, Turkey, 18 - 20 August 2003, vol.1, pp.66-75
- XV. **Torque Ripple Reduction in Switched Reluctance Motors by Pole Tip Shaping**
Özođlu Y., Güzelbeyođlu N., Meşe E., Garip M.
EPE-PEMC, Dubrovnik, Croatia, 9 - 11 September 2002, vol.1, pp.1-9

- XVI. **Excitation Comparison for Mutually Coupled Switched Reluctance Motors**
Özođlu Y., Garip M., Meşe E.
ICMCA 2002, Konya, Turkey, 4 - 06 September 2002, vol.1, pp.155-162
- XVII. **Finite Element Model of Conventional and Fully Pitched Reluctance Motors**
Özođlu Y., Garip M., Meşe E., Kasapođlu A.
EPNC 2002, Leuven, Belgium, 1 - 03 July 2002, vol.1, pp.59-62
- XVIII. **An approach to torque ripple reduction in fully pitched switched reluctance motors by pole tip shaping**
Garip M., OZOGLU Y., MESE E.
11th IEEE Mediterranean Electrotechnical Conference (IEEE MELECON 2002), Cairo, Egypt, 7 - 09 May 2002, pp.157-161
- XIX. **Analysis and Simulation of Parallel Active Power Filter for Three Phase Systems with 12 Pulse Load**
Erdođan N., Garip M.
ELECO 2001, Bursa, Turkey, 7 - 09 November 2001, vol.1, pp.88-92
- XX. **"Static Analysisi of Mutually Coupled Switched Reluctance Motor with Finite Element Method"**
Garip M., Özođlu Y., Meşe E.
ELECO-2001, Bursa, Turkey, 7 - 09 November 2001, vol.1, pp.305-308

Supported Projects

GARİP M., Çelik E., Project Supported by Higher Education Institutions, HAVAİ RÜZGAR ENERJİ SİSTEMLERİ İÇİN ÇİFT MODLU ENERJİ DÖNÜŞÜM ÜNİTESİNİN ÇOK FİZİKLİ ANALİTİK TASARIMI VE OPTİMİZASYONU, 2021 - 2025
TEZCAN M. M., AYDENİZ M. G., AKÇA H., GARİP M., TUBITAK Project, Hibrit Araç Uygulaması İçin Kuplajsız Çift Sargılı Elektrik Makinası Tasarımı ve Denetimi, 2010 - 2013

Metrics

Publication: 32
Citation (WoS): 48
Citation (Scopus): 74
H-Index (WoS): 4
H-Index (Scopus): 5

Non Academic Experience

İstanbul Büyükşehir Belediyesi, Şehir Aydınlatma ve Enerji Müdürü
Other Public Institution, İbb, Müdürlük
İstanbul Enerji A.Ş. , Proje Uzmanı
Ulaşım A.Ş. , Proje Mühendisi
Yıldız Teknik Üniversitesi, Arş. Görevlisi