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Education Information

Doctorate, University of Wisconsin-Madison, Elektrik Mühendisliği, United States Of America 1997 - 2004

Postgraduate, University of Wisconsin-Madison, Elektrik Mühendisliği, United States Of America 1995 - 1997

Undergraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 1989 - 1993

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Axial Flux Surface Mounted Permanent Magnet Disc Motors for Smooth Torque Traction Drive Applications, University Of Wisconsin-Madison, Elektrik Mühendisliği, 2004

Postgraduate, Analysis and Design of A Passively Clamped Quasi Resonant Voltage Source Inverter, University Of Wisconsin-Madison, Elektrik Mühendisliği, 1997

Research Areas

Electrical and Electronics Engineering, Power Electronics, Electrical Machine Theory and Design, Electric Motor Drivers, Engineering and Technology

Academic Titles / Tasks

Professor, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği, 2023 - Continues

Associate Professor, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği, 2018 - 2023

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği, 2006 - 2018

Research Assistant, University of Wisconsin-Madison, Elektrik Mühendisliği, 1997 - 2003

Courses

ELECTRIC CIRCUIT THEORY, Undergraduate, 2017 - 2018
GÜÇ ELEKTRONİĞİ İLE TAHRİK, Undergraduate, 2017 - 2018
TAHRİK SİSTEMLERİ, Undergraduate, 2016 - 2017
HİBRİT ELEKTRİK MOTORLARI, Undergraduate, 2016 - 2017

Advising Theses

Aydin M., Özgün bir sargı yapısı yaklaşımı ile dokuz fazlı dengesiz ve asimetrik sargılı yüzey ve gömülü mıknatıslı senkron motorların elektrikli taşıt uygulaması için tasarımı, modellenmesi ve deneysel doğrulanması, Doctorate, Y.DEMİR(Student), 2021
Aydin M., Sürekli mıknatıslı senkron motorlarda moment kalitesini artırmaya yönelik melez mıknatıs yerleşimli yeni bir rotor yapısı tasarımı ve deneysel doğrulanması, Doctorate, O.OCAK(Student), 2021
Aydin M., Taneleri yönlendirilmiş manyetik çelik malzemenin kalıcı mıknatıslı senkron motor performansına etkisi, Postgraduate, B.ÖZDİNÇER(Student), 2020
Aydin M., Asimetrik sargı yapılı dokuz fazlı sürekli mıknatıslı bir senkron motorun modellenmesi ve kontrolü, Doctorate, E.YOLAÇAN(Student), 2020
Aydin M., Eksenel akılı sürekli mıknatıslı senkron motorlarda vuruş momentinin harmonik akım ekleme yöntemi ile azaltılması, Postgraduate, M.TETİK(Student), 2020
Aydin M., Bir doğrusal kalıcı mıknatıslı senkron motorun yardımcı diş ve kaykay teknikleri ile vuruş kuvvetinin eniyileştirilmesi, Postgraduate, A.BODUROĞLU(Student), 2019
Aydin M., A new multidisciplinary design approach for a novel eddy current electromagnetic brake, Doctorate, M.GÜLEÇ(Student), 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Comparison of Concentrated and Distributed Winding Configurations on the Position Error for a Conventional Wound-Rotor Resolver**
Onsal M., Demir Y., AYDIN M.
IEEE Transactions on Magnetics, vol.59, no.11, 2023 (SCI-Expanded)
- II. **Design and Validation of an Unconventional 39-Slot PM Synchronous Motor With Asymmetric and Unbalanced AC Windings**
AYDIN M., Demir Y., Yolacan E., GÜLEÇ M., El-Refaie A. M.
IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN POWER ELECTRONICS, vol.10, no.2, pp.1733-1744, 2022 (SCI-Expanded)
- III. **Detection of Structural Magnet Defects for Permanent Magnet Synchronous Motors**
Kucukyildiz G., YOLAÇAN E., OCAK H., AYDIN M.
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.37, no.1, pp.665-674, 2022 (SCI-Expanded)
- IV. **A New Harmonic Current Injection Technique to Reduce Cogging Torque in Axial Flux Permanent Magnet Motors**
Girgin M. T., Guven M. K., Aydin M.
IEEE TRANSACTIONS ON MAGNETICS, vol.58, no.2, 2022 (SCI-Expanded)
- V. **Design of Innovative Radial Flux Permanent Magnet Motor Alternatives With Non-Oriented and Grain-Oriented Electrical Steel for Servo Applications**
Ozdincer B., Aydin M.
IEEE TRANSACTIONS ON MAGNETICS, vol.58, no.2, 2022 (SCI-Expanded)
- VI. **Impact of Asymmetric and Symmetric Overhangs on Torque Quality and Axial Magnetic Force Computations in Surface Mounted PM Synchronous Motors**
Onsal M., Demir Y., Aydin M.
IEEE TRANSACTIONS ON MAGNETICS, vol.58, no.2, 2022 (SCI-Expanded)

- VII. **Investigation of Asymmetric and Unbalanced Winding Structures for 3-Phase Permanent Magnet Synchronous Machines**
Demir Y., El-Refaie A. M., AYDIN M.
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.36, no.3, pp.1722-1732, 2021 (SCI-Expanded)
- VIII. **Magneto-Thermal Analysis of an Axial-Flux Permanent-Magnet-Assisted Eddy-Current Brake at High-Temperature Working Conditions**
GÜLEÇ M., AYDIN M., NERG J., LINDH P., PYRHONEN J. J.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol.68, no.6, pp.5112-5121, 2021 (SCI-Expanded)
- IX. **A Novel Track Structure of Double-Sided Linear PM Synchronous Motor for Low Cost and High Force Density Applications**
BODUROĞLU A., DEMİR Y., CUMHUR B., AYDIN M.
IEEE TRANSACTIONS ON MAGNETICS, vol.57, no.2, 2021 (SCI-Expanded)
- X. **Cost Minimization of a Permanent Magnet Eddy Current Brake by Multiobjective Particle Swarm Optimization Based on Nonlinear Reluctance Network Modeling**
GÜLEÇ M., LINDH P., AYDIN M., PYRHONEN J.
IEEE ACCESS, vol.9, pp.157361-157370, 2021 (SCI-Expanded)
- XI. **Modeling and Experimental Verification of an Unconventional 9-Phase Asymmetric Winding PM Motor Dedicated to Electric Traction Applications**
YOLAÇAN E., GUVEN M. K., AYDIN M., EL REFAIE A.
IEEE Access, vol.8, pp.70182-70192, 2020 (SCI-Expanded)
- XII. **An Innovative Semi-FEA Based, Variable Magnet-Step-Skew to Minimize Cogging Torque and Torque Pulsations in Permanent Magnet Synchronous Motors**
OCAK O., AYDIN M.
IEEE ACCESS, vol.8, pp.210775-210783, 2020 (SCI-Expanded)
- XIII. **Nonlinear Multidisciplinary Design Approach for Axial-Flux Eddy Current Brakes**
GÜLEÇ M., AYDIN M., NERG J., LINDH P., PYRHONEN J. J.
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.34, pp.1917-1927, 2019 (SCI-Expanded)
- XIV. **A New Asymmetric Planar V-Shaped Magnet Arrangement for A Linear PM Synchronous Motor**
BODUROĞLU A., GÜLEÇ M., DEMİR Y., YOLAÇAN E., AYDIN M.
IEEE Transactions on Magnetics, vol.55, no.7, 2019 (SCI-Expanded)
- XV. **Investigation of different winding configurations and displacements of a nine-phase permanent-magnet-synchronous motor with unbalanced AC winding structure**
DEMİR Y., YOLAÇAN E., EL-REFAIE A. M., AYDIN M.
IEEE Transactions on Industry Applications, vol.55, no.4, pp.3660-3670, 2019 (SCI-Expanded)
- XVI. **Investigation of Losses for a Concentrated Winding High-Speed Permanent Magnet-Assisted Synchronous Reluctance Motor for Washing Machine Application**
PAYZA O., DEMİR Y., AYDIN M.
IEEE TRANSACTIONS ON MAGNETICS, vol.54, no.11, 2018 (SCI-Expanded)
- XVII. **An Innovative Dual-Rotor Axial-Gap Flux-Switching Permanent-Magnet Machine Topology With Hybrid Excitation**
YILDIRIZ E., GÜLEÇ M., AYDIN M.
IEEE TRANSACTIONS ON MAGNETICS, vol.54, no.11, 2018 (SCI-Expanded)
- XVIII. **Rotor design optimization of a new flux-assisted consequent pole spoke-type permanent magnet torque motor for low-speed applications**
ONSAI M., CUMHUR B., DEMİR Y., YOLAÇAN E., AYDIN M.
IEEE Transactions on Magnetics, vol.54, no.11, 2018 (SCI-Expanded)
- XIX. **Implementation of different 2D finite element modelling approaches in axial flux permanent magnet disc machines**
GÜLEÇ M., AYDIN M.
IET ELECTRIC POWER APPLICATIONS, vol.12, no.2, pp.195-202, 2018 (SCI-Expanded)
- XX. **A Novel Torque Quality Improvement of an Asymmetric Windings Permanent-Magnet Synchronous**

Motor

YOLAÇAN E., Guven M., AYDIN M.

IEEE Transactions on Magnetics, vol.53, no.11, 2017 (SCI-Expanded)

- XXI. **A New Hybrid Permanent Magnet Synchronous Motor With Two Different Rotor Sections**
Ocak O., AYDIN M.
IEEE TRANSACTIONS ON MAGNETICS, vol.53, no.11, 2017 (SCI-Expanded)
- XXII. **Design, analysis and real time dynamic torque control of single-rotor-single-stator axial flux eddy current brake**
GÜLEÇ M., YOLAÇAN E., AYDIN M.
IET ELECTRIC POWER APPLICATIONS, vol.10, no.9, pp.869-876, 2016 (SCI-Expanded)
- XXIII. **A New Coreless Axial Flux Interior Permanent Magnet Synchronous Motor With Sinusoidal Rotor Segments**
AYDIN M., GÜLEÇ M.
IEEE TRANSACTIONS ON MAGNETICS, vol.52, no.7, 2016 (SCI-Expanded)
- XXIV. **Modeling based on 3D finite element analysis and experimental study of a 24-slot 8-pole axial-flux permanent-magnet synchronous motor for no cogging torque and sinusoidal back-EMF**
GÜLEÇ M., YOLAÇAN E., DEMİR Y., Ocak O., AYDIN M.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.1, pp.262-275, 2016 (SCI-Expanded)
- XXV. **Reduction of Cogging Torque in Double-Rotor Axial-Flux Permanent-Magnet Disk Motors: A Review of Cost-Effective Magnet-Skewing Techniques With Experimental Verification**
AYDIN M., GÜLEÇ M.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol.61, no.9, pp.5025-5034, 2014 (SCI-Expanded)
- XXVI. **Magnet asymmetry in reduction of cogging torque for integer slot axial flux permanent magnet motors**
GÜLEÇ M., AYDIN M.
IET ELECTRIC POWER APPLICATIONS, vol.8, no.5, pp.189-198, 2014 (SCI-Expanded)
- XXVII. **Comparing Various PM Synchronous Generators**
Aydin M., Gueven M. K.
IEEE VEHICULAR TECHNOLOGY MAGAZINE, vol.9, no.1, pp.36-45, 2014 (SCI-Expanded)
- XXVIII. **Design, Analysis, and Control of a Hybrid Field-Controlled Axial-Flux Permanent-Magnet Motor**
AYDIN M., Huang S., Lipo T. A.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol.57, no.1, pp.78-87, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Doğrusal Sürekli Miknatıslı Senkron Motorun Doğrusal Olmayan Manyetik Eşdeğer Devre ve Sonlu Elemanlar Tabanlı Tasarımı**
BARIŞ A., GÜLEÇ M., DEMİR Y., AYDIN M.
EMO BİLİMSEL DERGİ, 2018 (Peer-Reviewed Journal)
- II. **Kalıcı Miknatıslı Senkron Motorların Doğrudan Sürürlü Beyaz Eşya Uygulamalarında Kullanımı**
AYDIN M., Oğuzhan O., Günsu A.
EMO Bilimsel Dergi, 2011 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Comparison of Fractional and Integral Slot Winding Configurations on the Position Error for A Conventional Wound-Rotor Resolver**
Onsal M., Demir Y., AYDIN M.

2023 IEEE International Magnetic Conference - Short Papers, INTERMAG Short Papers 2023, Sendai, Japan, 15 - 19 May 2023

II. Effect of Radial and Axial Magnet Segmentation on PM Eddy Current Losses for Brushless Synchronous Motors

Demir Y., Onsal M., AYDIN M.

2023 IEEE International Magnetic Conference - Short Papers, INTERMAG Short Papers 2023, Sendai, Japan, 15 - 19 May 2023

III. Eddy Current Brakes: A Review on Working Principles and Technology Evolution

Gulec M., AYDIN M., Sergeant P.

2022 International Conference on Electrical Machines, ICEM 2022, Valencia, Spain, 5 - 08 September 2022, pp.441-447

IV. Detection of Radial and Axial Magnet Defects in PM Synchronous Motors

Kucukyildiz G., OCAK H., Yolacan E., AYDIN M.

2022 International Conference on Electrical Machines, ICEM 2022, Valencia, Spain, 5 - 08 September 2022, pp.1849-1854

V. Comparison of Permanent Magnet Machines Equipped with Unbalanced Fractional-Slot Distributed Windings vs. Balanced Fractional-Slot Concentrated Windings

Demir Y., El-Refaie A., AYDIN M.

IEEE International Electric Machines and Drives Conference (IEMDC), ELECTR NETWORK, 17 - 20 May 2021

VI. Endüstriyel Sürekli Mıknatıslı Servomotorlar İçin Bir Çözücü Tasarımı, Üretimi ve Doğrulaması

Onsal M., Demir Y., AYDIN M.

ELEKTRİK-ELEKTRONİK ve BİYOMEDİKAL MÜHENDİSLİĞİ KONFERANSI 2020 (ELECO 2020), Turkey, 26 - 28 November 2020

VII. Taneleri Yönlendirilmiş Manyetik Çelik Malzemenin Kalıcı Mıknatıslı Senkron Motor Performansına Etkisi

Özdiñer B., AYDIN M.

ELEKTRİK-ELEKTRONİK ve BİYOMEDİKAL MÜHENDİSLİĞİ KONFERANSI 2020 (ELECO 2020), Turkey, 26 - 28 November 2020

VIII. Mıknatıs Destekli Eksenel Akılı Sürekli Mıknatıslı Girdap Akım Freninin Tasarımı ve Optimizasyonu

GÜLEÇ M., AYDIN M.

ELEKTRİK-ELEKTRONİK ve BİYOMEDİKAL MÜHENDİSLİĞİ KONFERANSI 2020 (ELECO 2020), Turkey, 26 - 28 November 2020

IX. Elimination of Cogging Torque for Axial Flux Permanent Magnet Motors Based on Current Harmonic Injection

Tetik Girgin M., AYDIN M.

24th International Conference on Electrical Machines (ICEM 2020), 23 - 26 August 2020

X. Investigation of Flux Weakening Capability of an Unconventional 9-Phase PM Motor with Different Winding Configurations

YOLAÇAN E., Demir Y., AYDIN M., ElRefaie A.

IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society, Lisbon, Portugal, 14 - 17 October 2019

XI. Investigation of Magnetic Equivalent Circuit Modeling Approaches for an Asymmetric and Unbalanced Winding Permanent Magnet Motor

Güleç M., Aydın M.

IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society, Lisbon, Portugal, 14 - 17 October 2019, pp.1-6

XII. Investigation of Asymmetric and Unbalanced Winding Structures for 3-Phase Permanent Magnet Synchronous Machines

Demir Y., El-Refaie A., AYDIN M.

45th Annual Conference of the IEEE Industrial Electronics Society (IECON), Lisbon, Portugal, 14 - 17 October 2019, pp.1132-1137

- XIII. **Development of a 7.5kW High Speed Interior Permanent Magnet Synchronous Spindle Motor for CNC Milling Machine**
Ocak O., AYDIN M.
2018 XIII International Conference on Electrical Machines (ICEM), Alexandroupoli, Greece, 3 - 06 September 2018
- XIV. **Investigation of Different Winding Configurations and Displacements of a 9- Phase Permanent Magnet Synchronous Motor with Unbalanced AC Winding Structure**
Demir Y., YOLAÇAN E., Ei-Refaie A., AYDIN M.
23rd International Conference on Electrical Machines, ICEM 2018, Alexandroupoli, Greece, 3 - 06 September 2018, pp.2490-2496
- XV. **Design, FEA and Dynamic Simulation of a New Unconventional 9-Phase PMSM with Asymmetric Winding**
YOLAÇAN E., Demir Y., AYDIN M.
23rd International Conference on Electrical Machines, ICEM 2018, Alexandroupoli, Greece, 3 - 06 September 2018, pp.2123-2129
- XVI. **Design and Comparison of Radial Flux Magnetic Levitation Systems Based on Conventional and Buried Permanent Magnet Types Rotors**
GÜLEÇ M., YOLAÇAN E., AYDIN M.
23rd International Conference on Electrical Machines, ICEM 2018, Alexandroupoli, Greece, 3 - 06 September 2018, pp.642-648
- XVII. **Investigation of Braking Torque Characteristic for a Double-Stator Single-Rotor Axial-Flux Permanent-Magnet Eddy-Current Brake**
GÜLEÇ M., AYDIN M., Lindh P., Pyrhönen J.
IEEE International Conference on Electrical Machines, 3 - 06 September 2018
- XVIII. **Influence of Auxiliary Teeth on Performance of a Permanent Magnet Linear Motor**
Bariş A., Demir Y., Lyra R., AYDIN M.
2018 XIII International Conference on Electrical Machines (ICEM), Alexandroupoli, Greece, 3 - 06 September 2018
- XIX. **Uzay Vektör DGM Tekniği ile Sürekli Miknatıs Doğrusal Senkron Motor Modellenmesi ve Hareket Kontrolü**
Ulu Y., AYDIN M.
1. Ulusal Elektrik Enerjisi Dönüşümü Kongresi 2017, Turkey, 21 - 22 September 2017
- XX. **Bir Doğrusal Sürekli Miknatıslı Senkron Motorun Manyetik Eşdeğer Devre ve Sonlu Eleman Analizi Tabanlı Tasarımı**
BARIŞ A., GÜLEÇ M., DEMİR Y., AYDIN M.
1. Ulusal Elektrik Enerjisi Dönüşümü Kongresi, Turkey, 21 - 22 September 2017
- XXI. **A Novel Torque Quality Improvement of an Asymmetric Windings Permanent Magnet Synchronous Motor**
YOLAÇAN E., GUVEN M. K., AYDIN M.
2017 IEEE International Magnetics Conference (INTERMAG), Dublin, Ireland, 24 - 28 April 2017
- XXII. **Comparison of Non-linear Magnetic Modelling Techniques for an Open Slotted Axial Flux Eddy Current Brake**
GÜLEÇ M., AYDIN M.
National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 1 - 03 December 2016, pp.313-317
- XXIII. **Design and Validation of a 24-Pole Coreless Axial Flux Permanent Magnet Motor for A Solar Powered Vehicle**
AYDIN M., GÜLEÇ M., DEMİR Y., AKYÜZ B., YOLAÇAN E.
22nd International Conference on Electrical Machines (ICEM), Lausanne, Switzerland, 4 - 07 September 2016, pp.1493-1498
- XXIV. **Modelling and Analysis of a New Axial Flux Permanent Magnet Biased Eddy Current Brake**
GÜLEÇ M., AYDIN M.
22nd International Conference on Electrical Machines (ICEM), Lausanne, Switzerland, 4 - 07 September 2016,

pp.459-465

- XXV. **Tek Rotor Tek Stator Yapısına Sahip Eksenel Akılı Elektromanyetik Bir Frenin Modellenmesi Analizi ve Gerçek Zamanda Moment Denetimi**
GÜLEÇ M., AYDIN M.
Otomatik Kontrol Türk Milli Komitesi (TOK), Turkey, 10 - 12 September 2015
- XXVI. **2D finite element modelling approach for axial flux permanent magnet synchronous motors**
GÜLEÇ M., AYDIN M.
2015 IEEE International Magnetism Conference, INTERMAG 2015, Beijing, China, 11 - 15 May 2015
- XXVII. **Mıknatıs Korozyonunun 36 Oluk 12 Kutuplu Sürekli Mıknatıslı Senkron Motorun Performansına Etkisi**
Demir Y., Barış T E., Eyüp S., Turhan A., Yılmaz S., AYDIN M.
Elektrik Elektronik Bilgisayar Müh. Sempozyumu ve Sergisi (ELECO2014) konferansı, Turkey, 05 November 2014
- XXVIII. **Fırçasız Dış Rotorlu Elektrikli Bisiklet Motoru Tasarımı Üretimi Ve Deneysel Doğrulaması**
Demir Y., Barış T E., Eyüp S., Turhan A., Yılmaz S., AYDIN M.
Elektrik Elektronik Bilgisayar Müh. Sempozyumu ve Sergisi (ELECO2014) konferansı, Turkey, 05 November 2014
- XXIX. **Design and Simulation of an Axial Gap Electromagnetic Brake with Flux 3D FEA Package**
GÜLEÇ M., AYDIN M.
Cedrat FLUX 2014 Conference, 15 - 16 October 2014
- XXX. **Design and Control of an 8-Slot Radial Flux Magnetic Bearing**
GÜLEÇ M., YOLAÇAN E., AYDIN M.
IEEE International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), Italy, 18 - 20 June 2014, pp.1231-1236
- XXXI. **Design and Comparison of 33 Slot Permanent Magnet Synchronous Motor with Symmetric and Asymmetric AC Windings**
Demir Y., AYDIN M.
IEEE International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), Italy, 18 - 20 June 2014, pp.385-390
- XXXII. **Radyal Bir Aktif Manyetik Yatak Tasarımı Modellenmesi ve Bulanık Mantık ile Konum Denetimi**
GÜLEÇ M., YOLAÇAN E., AYDIN M.
Otomatik Kontrol Ulusal Toplantısı, Turkey, 26 - 28 September 2013, pp.214-219
- XXXIII. **Modelling and Design of Active Magnetic Bearings Based on Magnetic Circuit and 2D Finite Element Analysis**
GÜLEÇ M., AYDIN M.
14th International Workshop on Research and Education in Mechatronics, 6 - 07 June 2013, pp.161-167
- XXXIV. **Design of Various Permanent Magnet Synchronous Generators for High Power Traction Applications**
AYDIN M., Güven M.
IEEE Proceedings of the 2013 IEEE International Electric Machines and Drives Conference (IEMDC), United States Of America, 15 May 2013
- XXXV. **Vector based speed control of permanent magnet AC servomotor with FEA and experimental verification**
YOLAÇAN E., AYDIN M.
Joint 2012 9th France-Japan and 7th Europe-Asia Congress on Mechatronics, MECATRONICS 2012 and 13th International Workshop on Research and Education in Mechatronics, REM 2012, Paris, France, 21 - 23 November 2012, pp.324-328
- XXXVI. **Sürekli Mıknatıslı AC Servomotor Tasarımında Radyel ve Paralel Mıknatıslamanın Motor Performansına Etkisi**
Demir Y., Barış T E., Eyüp S., Turhan A., Yılmaz S., AYDIN M.
7. Elektrik Elektronik Bilgisayar Müh. Sempozyumu ve Sergisi (ELECO2012) konferansı, Turkey, 08 November 2012
- XXXVII. **Fırçasız DC ve AC Sürekli Mıknatıslı Motor Tasarımı ve Kullanılan Yazılımlar**
Demir Y., Barış T E., Eyüp S., Turhan A., Yılmaz S., AYDIN M.

7. Elektrik Elektronik Bilgisayar Müh. Sempozyumu ve Sergisi (ELECO2012) konferansı, Turkey, 08 November 2012
- XXXVIII. **Manyetik Yatakların Manyetik Devre ve 2B Sonlu Elemanlar Yöntemi ile Modellenmesi ve Tasarımı**
GÜLEÇ M., AYDIN M.
Elektrik - Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Turkey, 29 November - 01 December 2012, pp.35-40
- XXXIX. **Sürekli Mıknatıslı Disk Motorların Tasarımı ve Üretimi**
GÜLEÇ M., AYDIN M., YOLAÇAN E., OĞUZHAN O.
Otomatik Kontrol Ulusal Toplantısı, Turkey, 11 - 13 October 2012, pp.481-485
- XL. **Influence of magnet grouping in reduction of cogging torque for a slotted double-rotor axial-flux PM motor**
GÜLEÇ M., AYDIN M.
21st International Symposium on Power Electronics, Electrical Drives, Automation and Motion, SPEEDAM 2012, Sorrento, Italy, 20 - 22 June 2012, pp.812-817
- XLI. **Sürekli Mıknatıslı Senkron Motorun Vektör Temelli Bulanık Mantık ile Hız Denetimi**
GÜLEÇ M., YOLAÇAN E., AYDIN M.
Otomatik Kontrol Türk Milli Komitesi Ulusal Konferansı TOK 2012, Turkey, 05 September 2012
- XLII. **Mobil Robot Uygulamaları için Sürekli Mıknatıslı AC Servomotor Tasarımı Analizi ve Deneysel Doğrulaması**
Demir Y., Oğuzhan O., Barış T E., Eyüp S., AYDIN M.
Otomatik Kontrol Türk Milli Komitesi Ulusal Konferansı TOK 2012, Turkey, 05 September 2012
- XLIII. **No load analysis of permanent magnet AC servomotors A comparative study**
Oğuzhan O., AYDIN M.
12th International Workshop on Research and Education in Mechatronics – REM 2011, Turkey, 09 September 2011
- XLIV. **Rotor segmentation for spoke type interior permanent magnet servomotors**
Oğuzhan O., AYDIN M.
12th International Workshop on Research and Education in Mechatronics – REM 2011, Turkey, 09 September 2011
- XLV. **Magnet shape optimization of a slotted surface-mounted axial gap PM motor for reducing cogging torque**
YOLAÇAN E., Ozyurt E., AYDIN M.
19th International Conference on Electrical Machines, ICEM 2010, Rome, Italy, 6 - 08 September 2010
- XLVI. **Cogging Torque Minimization and Torque Quality of Radial and Axial Flux Permanent Magnet Servomotors**
YOLAÇAN E., özyurt e., oğuzhan o., AYDIN M.
11th International Workshop on Research and Education in Mechatronics - REM 2010, Czech Republic, 18 August 2010
- XLVII. **3D Finite Element Analysis and Experimental Verification of A Magnetic Levitation System**
Aydın M., Bingül Z.
11th International Workshop on Research and Education in Mechatronics, Ostrava, Czech Republic, 16 June 2010, pp.191-194
- XLVIII. **Sabit Mıknatıslı Disk Motorlarda Mıknatıs Kaykısı Etkisi**
AYDIN M.
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