

Assoc. Prof. Salih Barış Öztürk

Personal Information

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Biography

Salih Baris Ozturk (S'02–M'08–SM'19) received the B.Sc. degree (with honors) in electrical engineering from Istanbul

Technical University, Istanbul, Turkey, in 2000. In 2002, he joined Advanced Electrical Machines and Power Electronics

(EMPE) Laboratory research group at Texas A&M University, College Station, Texas, USA, where he was a Graduate

Research and Teaching Assistant as well as a Lecturer in the Department of Electrical and Computer Engineering and

received the M.Sc. and Ph.D. degrees from Texas A&M University, College Station, in 2005 and 2008, respectively, all in

electrical engineering. He is (one of) the recipient(s) of the EPPEI Scholarship (Academic Excellence Scholarship) from

Texas A&M University in 2004.

In 2004, he was with the Whirlpool R&D Center, Benton Harbor, MI. In 2008, he joined the Power Electronics Group, United Technologies Research Center (UTRC), East Hartford, CT, as a Senior Research Engineer. He had been an Assistant Professor in the Department of Electrical and Electronics Engineering, Istanbul Okan University, Istanbul, Turkey, and the director of the Power Electronics and Energy Conversion (PEEC) Laboratory between Sept. 2009 and Jan. 2020. Since Jan. 2020, he has been an Associate Professor in the Department of Electrical Engineering, Istanbul Technical University, Istanbul, Maslak, Turkey and serving as the Associate Head of Department of Electrical Engineering. He is the holder of an international patent and a U.S. patent on Method for Smooth Motor Startup. He has also a Turkish patent on Internal Resistance Measurement Method for Super Capacitors. His current research interests include modeling, design, analysis, and digital control of advanced power electronics converters in particular MPPT based controlled rectifiers for permanent magnet synchronous generators, multi-level inverters, stand-alone and grid-

connected cost-effective and efficient micro-inverters for photovoltaic and wind power systems, electric and hybrid electric vehicles, reduced switch inverters, resonant inverters and converters, uninterruptable power supplies, battery management systems including charging optimization and battery safety. His research interests also include machine learning for power electronics and drives, design, condition monitoring and diagnostics of electric machines, and digital-signal-processor-based advanced control of ac drives in particular model predictive control and sensorless vector and direct torque control of induction, permanent-magnet synchronous, synchronous reluctance and brushless dc machines. He is the author of chapter "Development of Field-Oriented Control Induction Motor Using VisSim" in the book DSP-Based Electromagnetic Motion Control (Boca Raton, FL: CRC Press, 2003).

Dr. Ozturk received the 2008 IEEE Industrial Electronics Society Best Paper Award, Second Prize from the Electric Machines Technical Committee for his paper, "Sensorless Direct Torque and Indirect Flux Control of Brushless DC Motor with Non-sinusoidal Back-EMF," presented at the 2008 IEEE Industrial Electronics Conference (IECON), Miami, FL. He is also one of the recipients of the 2008 Outstanding Achievement Award (highest award) from the United Technologies Research Center for his participation in achieving the successful demonstration of the World's First Fuel Cell Powered Rotorcraft Flight. In 2019, he has been elevated to the Senior Member grade of the IEEE (International Electrical and Electronic Engineering-World's Largest Technical Professional Organization); less than 10% of the members achieves this level of professional recognition.

Dr. Ozturk has been a member of the IEEE IAS, IE, PE, VT, and PES societies and serves as a reviewer for the IEEE Transaction on Power Electronics, IEEE Transaction on Industrial Electronics, IEEE Transaction on Industrial Applications, IEEE Transaction on Journal of Emerging and Selected Topics in Power Electronics, and the IEEE/ASME Transaction on Mechatronics. He has also been serving in the editorial board of Journal of Cognitive Systems and Elsevier's International Journal of Engineering, Systems and Technology.

Education Information

Doctorate, Texas A&M University, College of Engineering, Department of Electrical and Computer Engineering, United States Of America 2006 - 2008

Postgraduate, Texas A&M University, College of Engineering, Department of Electrical and Computer Engineering, United States Of America 2002 - 2005

Undergraduate, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, Turkey 1995 - 2000

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Measurement and Evaluation, ControlDesk Next Generation Basic and dSPACE SCALEXIO System, dSPACE, 2015

Dissertations

Doctorate, Direct Torque Control of Brushless DC Motor with Non-sinusoidal Back-EMF, Texas A&M University, College of Engineering, Department of Electrical and Computer Engineering, 2008

Postgraduate, Modeling, Simulation, and Analysis of Low-Cost Direct Torque Control of PMSM Using Hall-Effect Sensors, Texas A&M University, College of Engineering, Department of Electrical and Computer Engineering, 2005

Research Areas

Direct Energy Conversion and Energy Storage, Renewable energy, Power Electronics, Electrical Machine Theory and Design, Electric Motor Drivers, Power Converters, Power Quality

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2020 - Continues
Assistant Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2020 - 2020
Assistant Professor, Istanbul Okan University, Faculty Of Engineering, 2009 - 2020
Research Assistant, Texas A&M University, Bilgisayar Bilimleri ve Elektrik Mühendisliği, Elektrik Mühendisliği, 2002 - 2008

Academic and Administrative Experience

Deputy Head of Department, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2020 - Continues
Head of Department, Istanbul Okan University, Faculty Of Engineering, 2018 - 2020
Fakülte Kurulu Üyesi, Istanbul Okan University, Faculty Of Engineering, 2018 - 2020
Program Koordinatörü, Istanbul Okan University, Graduate School Of Natural And Applied Sciences, Power Electronics and Clean Energy Systems (PECES) M.Sc. Program, 2012 - 2020
Erasmus Coordinator, Istanbul Okan University, Faculty Of Engineering, 2010 - 2020
Program Koordinatörü, Istanbul Okan University, Graduate School Of Natural And Applied Sciences, Mechatronics Engineering Ph.D. Program, 2010 - 2020

Courses

Mechatronics Engineering O'COOP 1, 2, 3, 4, Undergraduate, 2018 - 2019
Microcontrollers, Undergraduate, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019
DSP-Based Electromechanical Motion Control, Postgraduate, 2017 - 2018, 2018 - 2019
Mechatronics Engineering Graduation Project, Undergraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020
Electrical-Electronics Engineering Graduation Project, Undergraduate, 2017 - 2018, 2018 - 2019
Electromechanical Energy Conversion, Undergraduate, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020
Mechatronics Engineering Design, Undergraduate, 2019 - 2020
Fundamentals of Power Systems, Undergraduate, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019
Electric Drives, Undergraduate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020
Advanced Electric Drives, Postgraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020
Graduation Project, Undergraduate, 2014 - 2015, 2015 - 2016, 2016 - 2017
Graduation Project, Undergraduate, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017
Power Electronics and Motion Control Systems, Undergraduate, 2016 - 2017
Principles of Energy Systems Engineering, Undergraduate, 2014 - 2015, 2016 - 2017
DSP-Based Electromechanical Motion Control, Doctorate, 2013 - 2014, 2014 - 2015, 2015 - 2016
Advanced Electric Drives, Doctorate, 2011 - 2012, 2013 - 2014, 2014 - 2015, 2016 - 2017
Engineering Design, Undergraduate, 2015 - 2016
Introduction to EE Engineering, Undergraduate, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015
Graduation Project II, Undergraduate, 2012 - 2013
Computer Programming, Undergraduate, 2009 - 2010

Introduction to Matlab / SIMULINK, Undergraduate, 2010 - 2011

Advising Theses

Öztürk S. B. , Model Predictive Control of Permanent Magnet Synchronous Motor in Electric Power Assisted Steering System, Postgraduate, A.MOHAMMAD(Student), 2020

Öztürk S. B. , Kelleci B., Design and analysis of high power sepic converter, Postgraduate, İ.HALİL(Student), 2019

Öztürk S. B. , Aktaş M., Investigation of performances of model predictive controlled induction motors, Postgraduate, G.BAHADIR(Student), 2018

Öztürk S. B. , An encoder fault tolerant FGPA based robot control using bluetooth of a smart phone, Postgraduate, M.AMEEN(Student), 2017

Öztürk S. B. , A simple least squares approach for low speed performance analysis of indirect foc induction motor drive using low-resolution position sensor, Postgraduate, S.REHMAN(Student), 2017

Öztürk S. B. , Sensorless permanent magnet synchronous machine control based on stator feedforward voltage estimation, Doctorate, Ö.CİHAN(Student), 2016

Jury Memberships

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, October, 2019

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2019

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2019

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2019

Post Graduate, Post Graduate, İstanbul Okan Üniversitesi, April, 2019

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, December, 2018

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, February, 2018

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, February, 2018

Post Graduate, Post Graduate, İstanbul Okan Üniversitesi, April, 2017

Post Graduate, Post Graduate, İstanbul Okan Üniversitesi, April, 2017

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, January, 2017

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, January, 2017

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, December, 2015

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Okan Üniversitesi, December, 2015

Doctorate, Doctorate, İstanbul Teknik Üniversitesi, September, 2015

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, August, 2015

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Okan Üniversitesi, July, 2015

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Okan Üniversitesi, June, 2015

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, May, 2015

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, May, 2015

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, January, 2015

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, December, 2014

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, December, 2014

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, December, 2014

Doctoral Examination, Doctoral Examination, İstanbul Okan Üniversitesi, July, 2014

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, December, 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On-line dead time compensator for PMSM drive based on current observer**
Kivanc O. C. , Öztürk S. B. , Toliyat H. A.
Engineering Science and Technology, an International Journal, vol.25, 2022 (Journal Indexed in SCI)
- II. **A Review of Modular Multilevel Converters for Stationary Applications**
Wang Y., Aksoz A., Geury T., Öztürk S. B. , Kivanc O. C. , Hegazy O.
APPLIED SCIENCES-BASEL, vol.10, no.21, 2020 (Journal Indexed in SCI)
- III. **SEPIC Converter with an LC Regenerative Snubber for EV Applications**
Kasasbeh A., KELLEÇİ B., Öztürk S. B. , Aksoz A., Hegazy O.
ENERGIES, vol.13, no.21, 2020 (Journal Indexed in SCI)
- IV. **Rotor Position Alignment of FSTPI Based PMSM Drive Using Low Frequency Signal Injection**
Öztürk S. B. , Kivanc O. C. , Aksoz A., Hegazy O.
APPLIED SCIENCES-BASEL, vol.10, no.21, 2020 (Journal Indexed in SCI)
- V. **Excitation procedure for brushless wound-rotor synchronous starter generator with seamless transitions**
Deriszadeh A., Karabasoglu O., Ozturk S. B.
IET POWER ELECTRONICS, vol.12, no.11, pp.2873-2883, 2019 (Journal Indexed in SCI)
- VI. **Low-Cost Position Sensorless Speed Control of PMSM Drive Using Four-Switch Inverter**
Kivanc O. C. , Ozturk S. B.
ENERGIES, vol.12, no.4, 2019 (Journal Indexed in SCI)
- VII. **Sensorless PMSM Drive Based on Stator Feedforward Voltage Estimation Improved With MRAS Multiparameter Estimation**
Kivanc O. C. , Ozturk S. B.
IEEE-ASME TRANSACTIONS ON MECHATRONICS, vol.23, no.3, pp.1326-1337, 2018 (Journal Indexed in SCI)
- VIII. **Sector determination for SVPWM based four-switch three-phase VSI**
Kivanc O. C. , Ozturk S. B.
ELECTRONICS LETTERS, vol.53, no.5, pp.343-344, 2017 (Journal Indexed in SCI)
- IX. **Direct Torque and Indirect Flux Control of Brushless DC Motor**
Ozturk S. B. , Toliyat H. A.
IEEE-ASME TRANSACTIONS ON MECHATRONICS, vol.16, no.2, pp.351-360, 2011 (Journal Indexed in SCI)
- X. **Direct Torque Control of Four-Switch Brushless DC Motor With Non-Sinusoidal Back EMF**
Ozturk S. B. , Alexander W. C. , Toliyat H. A.
IEEE TRANSACTIONS ON POWER ELECTRONICS, vol.25, no.2, pp.263-271, 2010 (Journal Indexed in SCI)
- XI. **DSP-Based Sensorless Electric Motor Fault Diagnosis Tools for Electric and Hybrid Electric Vehicle Powertrain Applications**
Akin B., Ozturk S. B. , Toliyat H. A. , Rayner M.
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol.58, no.5, pp.2150-2159, 2009 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Sensorless control of permanent magnet synchronous generator drive using reduced switch inverter**
KIVANÇ Ö. C. , ÖZTÜRK S. B.
PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, vol.25, no.2, pp.132-142, 2019 (Journal Indexed in ESCI)
- II. **Stator Feedforward Voltage Estimation Based Sensorless Permanent Magnet Synchronous Generator Drive Using Multi-Parameter Estimation Based on MRAS**
KIVANÇ Ö. C. , ÖZTÜRK S. B.
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK-MİMARLIK FAKÜLTESİ DERGİSİ, vol.32, no.3, pp.227-242, 2017 (Other Refereed National Journals)

- III. **Parametrical Method of Low-Frequency Harmonics Suppression in Rectifier's Output Voltage Under Supply Voltage Unbalances (Mathematical Model, Study and Industrial Application)**
ALÍZADE P. G. , TUNCAY R. N. , ÖZTÜRK S. B. , KIVANÇ Ö. C. , MAMEDOV H. A. , ABDULLAEV S. A.
MATHEMATICAL AND COMPUTER MODELLING SERIES: TECHNICAL SCIENCES, vol.13, pp.5-16, 2016 (Refereed Journals of Other Institutions)
- IV. **MATLAB Function Based Approach to FOC of PMSM Drive**
KIVANÇ Ö. C. , ÖZTÜRK S. B.
INTERNATIONAL JOURNAL OF SIMULATION SYSTEMS, SCIENCE AND TECHNOLOGY (IJSSST), vol.17, no.33, pp.1-8, 2016 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Development of Field-Oriented Control Induction Motor Using VisSim**
ÖZTÜRK S. B.
in: DSP-Based Electromechanical Motion Control, Hamid A. Toliyat, Steven G. Campbell, Editor, CRC Press, Boca Raton, pp.327-342, 2003

Refereed Congress / Symposium Publications in Proceedings

- I. **Design and Technical Assessment of Local Electrical Storage Systems in Double-Fed Generators for Wind Turbine Power System Applications**
Aksöz A., Benomar Y., Geury T., El Baghdadi M., Hegazy O., Öztürk S. B. , Colak I.
16th International Conference on Ecological Vehicles and Renewable Energies (EVER), ELECTR NETWORK, 5 - 07 May 2021
- II. **Design of a Controller for Torsional Vibrations of an Electric Vehicle Powertrain**
KARAMUK M., ÖZTÜRK S. B.
2019 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) 2019 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Istanbul, Turkey, Turkey, 27 - 29 August 2019
- III. **Design and Analysis of 240 Watt SEPIC Converter for LED Applications**
HAYIRLI İ. H. , KELLEÇİ B., KIVANÇ Ö. C. , ÖZTÜRK S. B. , TUNCAY R. N. , ÇİTÇİ O.
2019 IEEE INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ELECTRONICS (ISIE 2019), Vancouver, Canada, 12 - 14 June 2019, pp.804-809
- IV. **An Encoder Fault Tolerant FPGA Based Robot Control Using Bluetooth of a Smart Phone**
MAJEED A., ÖZTÜRK S. B. , TÜRELİ D. K.
2017 IEEE 10TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING (ELECO 2017), Bursa, Turkey, 30 November - 02 December 2017, pp.1336-1341
- V. **A Simple Least Squares Approach for Low Speed Performance Analysis of Indirect FOC Induction Motor Drive Using Low-resolution Position Sensor**
ÖZTÜRK S. B. , KIVANÇ Ö. C. , ATİLA B., REHMAN S. U. , AKIN B., TOLİYAT H. A.
2017 IEEE INTERNATIONAL ELECTRIC MACHINES AND DRIVES CONFERENCE (IEMDC 2017), Miami, United States Of America, 21 - 24 May 2017
- VI. **Electro-hydraulic Power Steering System Modelling for Parameter Fault Detection Based on Model Reference Adaptive Frame**
KIVANÇ Ö. C. , ÖZTÜRK S. B. , TUNCAY R. N. , KESİCİ E., YAZICI C.
2016 42ND ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY (IECON 2016), Florence, Italy, United States Of America, 23 - 26 October 2016
- VII. **MATLAB Function Based Approach to FOC of PMSM Drive**
KIVANÇ Ö. C. , ÖZTÜRK S. B.

2015 IEEE EUROPEAN MODELLING SYMPOSIUM (EMS 2015), Madrid, Spain, 6 - 08 October 2015

- VIII. **Exciting System Selection for Brushless Synchronous Machine**
ÜSTÜN Ö., ÖZTÜRK S. B. , KIVANÇ Ö. C. , ALİZADE P. G. , TUNCAY R. N.
2012 8TH MEDITERRANEAN CONFERENCE ON POWER GENERATION, TRANSMISSION, DISTRIBUTION AND ENERGY CONVERSION (MEDPOWER 2012), Cagliari, Italy, 1 - 03 October 2012
- IX. **Quasi-Smart Construction Synchronous Machine Working with Extensive Cycling Load**
ALİZADE P. G. , TUNCAY R. N. , ÖZTÜRK S. B. , KIVANÇ Ö. C.
2012 INTERNATIONAL CONFERENCE ON APPLICATION OF INFORMATION AND COMMUNICATION TECHNOLOGY AND STATISTICS IN ECONOMY AND EDUCATION (ICAICTSEE 2012), Sofija, Bulgaria, 5 - 06 October 2012, pp.93-101
- X. **A Study on Autonomous Vehicle Development Process at Okan University**
AKGÜN B. T. , KOÇ Z., GÜNER KOÇ Ş., ÖZTÜRK S. B. , ÖZKAN B., ÜSTÜN Ö., TUNCAY R. N. , ÖZGÜNER Ü.
2012 IEEE INTERNATIONAL CONFERENCE ON VEHICULAR ELECTRONICS AND SAFETY (ICVES 2012), İstanbul, Turkey, 24 - 27 July 2012, pp.369-374
- XI. **Sensorless Direct Torque and Indirect Flux Control of Brushless DC Motor with Non-sinusoidal Back-EMF**
ÖZTÜRK S. B. , TOLİYAT H. A.
2008 34TH ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY (IECON 2008), Orlando, FL, United States Of America, 10 - 13 November 2008, pp.1373-1378
- XII. **Direct Torque Control of Four-switch Brushless DC Motor with Non-sinusoidal Back-EMF**
ÖZTÜRK S. B. , ALEXANDER W. C. , TOLİYAT H. A.
2008 IEEE POWER ELECTRONICS SPECIALISTS CONFERENCE (PESC 2008), Rhodes, Greece, Greece, 15 - 19 June 2008, pp.4730-4736
- XIII. **A PWM Strategy with Reduced Bearing Currents for Five-Phase Motors**
FREITAS I. S. , TOLİYAT H. A. , JACOBINA C. B. , ÖZTÜRK S. B.
2007 IEEE VEHICLE POWER AND PROPULSION CONFERENCE (VPPC 2007), Arlington, TX, United States Of America, 9 - 12 September 2007, pp.354-358
- XIV. **On-board Fault Diagnosis of HEV Induction Motor Drive at Start-up and During Idle Mode**
AKIN B., ÖZTÜRK S. B. , TOLİYAT H. A.
2007 IEEE VEHICLE POWER AND PROPULSION CONFERENCE (VPPC 2007), Arlington, TX, United States Of America, 9 - 12 September 2007, pp.140-147
- XV. **Power Factor Correction of Direct Torque Controlled Brushless DC Motor Drive**
ÖZTÜRK S. B. , YANG O., TOLİYAT H. A.
2007 IEEE INDUSTRY APPLICATIONS ANNUAL MEETING (IAS 2007), New Orleans, LA, United States Of America, 23 - 27 September 2007, pp.297-304
- XVI. **Direct Torque Control of Brushless DC Motor with Non-sinusoidal Back-EMF**
ÖZTÜRK S. B. , TOLİYAT H. A.
2007 IEEE INTERNATIONAL ELECTRIC MACHINES AND DRIVES CONFERENCE (IEMDC 2007), Antalya, Turkey, 3 - 05 May 2007, pp.165-171
- XVII. **Low Speed Performance Operation of Induction Motors Drives Using Low-Resolution Speed Sensor**
AKIN B., ÖZTÜRK S. B. , NIAZI P., TOLİYAT H. A. , GOODARZI A.
2006 IEEE INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ELECTRONICS (ISIE 2006), Montreal, Canada, 9 - 13 July 2006, pp.2110-2115
- XVIII. **Low-Cost Direct Torque Control of Permanent Magnet Synchronous Motor Using Hall-Effect Sensors**
ÖZTÜRK S. B. , AKIN B., TOLİYAT H. A. , ASHRAFZADEH F.
2006 IEEE APPLIED POWER ELECTRONICS CONFERENCE AND EXPOSITION (APEC 2006), Dallas, TX, United States Of America, 19 - 23 March 2006, pp.667-673

Supported Projects

Öztürk S. B. , Tuncay R. N. , TUBITAK Project, AKILLI YENİLENEBİLİR ENERJİ YÖNETİM SİSTEMİ, 2018 - 2020

Öztürk S. B. , Kelleci B., TUBITAK Project, Yüksek Verimli, İki Farklı Güçte Çıkış Gerilimi Değiştirilebilen SEPIC LED Sürücü Tasarımı ve Gerçekleştirilmesi (TUBİTAK 1505 - 5170021), 2018 - 2020

Öztürk S. B. , Alankuş O. B. , TUBITAK Project, İleri Seviyede Otonom Otobüs Sistemi Geliştirilmesi (TUBİTAK 1505 - 5170067), 2018 - 2020

Öztürk S. B. , Tuncay R. N. , TUBITAK Project, Dinamik ve Modüler Akıllı Batarya Yönetim Sistemi (TUBİTAK 1003 - Öncelikli Alanlar - 115E100), 2015 - 2017

Öztürk S. B. , Çabri A., TUBITAK Project, Solar Sulama Sistemleri İçin, Aynı Zamanda İnvörtör Özelliğine Sahip Su Pompası Sürücüsü Geliştirilmesi (TUBİTAK 1507 - 7150583), 2015 - 2017

Öztürk S. B. , TUBITAK Project, Küçük Kareler Yaklaşımı İle Düşük Çözünürlükteki Pozisyon Sensörlü Alternatif Akım Makinalarında Çok Düşük Hız Performansının İyileştirilmesi (TUBİTAK 1002 - Hızlı Destek - 115E173), 2015 - 2016

Öztürk S. B. , Alankuş O. B. , CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Yenilikçi Akıllı ve Haberleşen Araç Teknolojileri Geliştirme ve Kümelenme Merkezi (TR10/15/YNK/0022), 2015 - 2016

Öztürk S. B. , Kesici E., TUBITAK Project, Elektronik Motor Destekli Elektro-Hidrolik Direksiyon Sisteminin Geliştirilmesi (TUBİTAK 1511 - 112038), 2013 - 2016

Öztürk S. B. , TUBITAK Project, Geniş Hız Yelpazesinde Çalışan, Doğrudan Tahrikli, Pozisyon Sensörsüz Küçük Güçlü Bir Sürekli Mıknatıslı Senkron Generatör Sisteminin Kontrolü ve Gerçeklenmesi (TUBİTAK 3501 - 112E263), 2013 - 2016

Öztürk S. B. , Alankuş O. B. , CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Yenilikçi ve Sürdürülebilir Elektrikli ve Hibrid Araç Teknolojileri Geliştirme ve Kümelenme Merkezi (TR10/14/YEN/0088), 2014 - 2015

Öztürk S. B. , Üstün Ö., Project Supported by Other Official Institutions, Elektrikli Araçlar İçin Geri Kazanımlı Frenleme Sistemi Yazılımı Geliştirme Projesi (EPT-RBS), 2013 - 2014

Öztürk S. B. , - , TUBITAK Project, ELEKTRİKLİ ARAÇLAR İÇİN YÜKSEK VERİMLİ VE YERLİ TASARIM TAHRİK SİSTEMİ GELİŞTİRME PROJESİ, 2012 - 2014

Öztürk S. B. , Üstün Ö., Project Supported by Other Official Institutions, Elektrikli Araçlar için IPM Motor Kontrolünün Gerçekleştirilmesi (EPT-SMS), 2012 - 2014

Öztürk S. B. , Ürgine Y., Project Supported by Other Official Institutions, Dişlisiz Sürekli Mıknatıslı Asansör Motoru Tasarımı, 2011 - 2014

Öztürk S. B. , Göbülük M., Project Supported by Other Official Institutions, Elektrikli Bisiklet, 2010 - 2012

Öztürk S. B. , Tuncay R. N. , Project Supported by Higher Education Institutions, Otonom Araç (OKANOM), 2009 - 2011

Öztürk S. B. , Blasko V., Other Supported Projects, OTIS Asansörlerinde Şebeke Bağlantı Problemleri ve Çözümleri, 2009 - 2009

Öztürk S. B. , Blasko V., Other Supported Projects, Tandem Operasyonlu OTIS Asansörler İçin Dinamik Frenleme, 2009 - 2009

Öztürk S. B. , Blasko V., Other Supported Projects, CARRIER Ölçeklenebilir Dijital Kontrol Makinesi, 2008 - 2009

Öztürk S. B. , Blasko V., Other Supported Projects, Dünya'da İlk Kez PEM Yakıt Hücreli Elektrikli Helikopter Uçuşu, 2008 - 2008

Öztürk S. B. , Blasko V., Other Supported Projects, SIKORSKY Geleceğin Elektrikli Helikopter Çalışması, 2008 - 2008

Öztürk S. B. , Blasko V., Other Supported Projects, United Technologies Araştırma ve Geliştirme Merkezi Güç Elektronikleri Sistemleri Birimi: Sürekli Mıknatıslı Senkron Motorun Sensörsüz Kontrolü, 2008 - 2008

Öztürk S. B. , Blasko V., Other Supported Projects, Sensörsüz Asenkron Motor Kontrolü, 2008 - 2008

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Memberships / Tasks in Scientific Organizations

IEEE (International Electrical and Electronic Engineering), Principal Member, 2002 - Continues

Scientific Refereeing

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Tasks In Event Organizations

Öztürk S. B. , Workshop on Electric and Hybrid Electric Vehicle Technologies Cluster (3rd Workshop), Workshop Organization, Turkey, Haziran 2015

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Scientific Research / Working Group Memberships

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