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Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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Yönetilen Tezler

- ERTAN H. B., Development of High-torque density electric machines, Doktora, M.SALIK(Öğrenci), 2022
- ERTAN H. B., Estimation of stator resistance of induction motor using innovation based adaptive extended kalman filter, Yüksek Lisans, M.ZEKİ(Öğrenci), 2021
- ERTAN H. B., Tyre slip control methods for electric vehicles, Yüksek Lisans, N.JAVED(Öğrenci), 2021
- ERTAN H. B., Predicting thermal behavior of Li-ion batteries in electric cars and thermal management, Doktora, B.JOSE(Öğrenci), 2021
- ERTAN H. B., Seri hibrit elektrikli aracın boyutlandırılması, Yüksek Lisans, F.Remzican(Öğrenci), 2019
- ERTAN H. B., Rotoru dışarda fırçasız DA motora sahip kontrol moment jiroskobunun tasarımı, Yüksek Lisans, B.İnce(Öğrenci), 2019
- ERTAN H. B., Anahtarlama tekniğinin ve gan malzemelerin çift yönlü azaltan-artıran DA/DA çeviricilerin performansına etkilerinin araştırılması, Yüksek Lisans, İ.Koçak(Öğrenci), 2019
- ERTAN H. B., Rüzgar enerjisi dönüşümü benzetimi için donanım içinde yazılım sistemi geliştirilmesi, Yüksek Lisans, S.Pourkeivannour(Öğrenci), 2019
- ERTAN H. B., Akım bilgisinden konum hesaplayarak sensörsüz olarak vektör motor kontrolünün uygulanması, Yüksek Lisans, T.Filci(Öğrenci), 2016
- ERTAN H. B., Direkt sürürlü rüzgar türbini uygulaması için yüksek moment yoğunluklu alternatör tasarımı ve optimizasyonu, Yüksek Lisans, R.Zeinali(Öğrenci), 2016
- ERTAN H. B., Design and optimziation of high torque density generator for direct drive wind turbine applications, Yüksek Lisans, R.ZEINALI(Öğrenci), 2016
- ERTAN H. B., Prediction of rotor position from rotor slot harmonics existing in motor stator current, Yüksek Lisans, T.FİLCİ(Öğrenci), 2016
- ERTAN H. B., Design and implementation of variable frequency sine wave output buck-boost inverter, Yüksek Lisans, Y.ŞENER(Öğrenci), 2016
- ERTAN H. B., Optimum pole combination to maxmize torque density in switched reluctance motors for electric vehicle applications, Yüksek Lisans, R.TARVIRDILU(Öğrenci), 2016
- ERTAN H. B., The effect of DC link filter design and compensation on dynamic performance of vector controlled drive, Yüksek Lisans, M.KAYHAN(Öğrenci), 2015
- ERTAN H. B., Design of an outer-rotor brushless DC motor for control moment gyroscope applications, Yüksek Lisans, N.ÇAĞAN(Öğrenci), 2015
- ERTAN H. B., Development of a hardware-in-the-loop wind energy conversion system emulator, Yüksek Lisans, G.CENGİZ(Öğrenci), 2015
- ERTAN H. B., DC bara filtre tasarımı ve kompanzasyonunun vektor kontrollü sürücünün dinamik performansı üzerindeki etkileri, Yüksek Lisans, M.Kayhan(Öğrenci), 2015
- ERTAN H. B., A software for analysis of permanent magnet AC motors, Yüksek Lisans, D.BULGAN(Öğrenci), 2014
- ERTAN H. B., Design software development for induction motors, Yüksek Lisans, M.İZGÜDEN(Öğrenci), 2011

ERTAN H. B., Measurement of brushless DC motor characteristics and parameters and brushless DC motor design, Yüksek Lisans, İ.ŞAHİN(Öğrenci), 2010

ERTAN H. B., Asenkron motorlar için harici bobin ile modifiyesiz hız ve pozisyon algılayıcısı., Yüksek Lisans, O.Keysan(Öğrenci), 2009

ERTAN H. B., Comparison of axial flux and radial flux brushless dc motor topologies for control moment gyroscope wheel applications, Yüksek Lisans, K.YILMAZ(Öğrenci), 2009

ERTAN H. B., A novel algorithm for prediction off-line stator leakage inductance and on-line stator resistance of induction motors, Yüksek Lisans, V.SEZGİN(Öğrenci), 2009

ERTAN H. B., A normalized set of force and permeance data for doubly-salient magnetic geometries, Yüksek Lisans, İ.MAHARİQ(Öğrenci), 2009

ERTAN H. B., Development of an electrical machines analysis and optimum design software package, Yüksek Lisans, Y.GÖYNÜK(Öğrenci), 2008

ERTAN H. B., Doğrutulmuş yarı dalga sinüs çıkış üreten anahtarlamalı güç kaynağı., Yüksek Lisans, İ.Kaya(Öğrenci), 2008

LEBLEBİCİOĞLU M. K., ERTAN H. B., A control algorithm to minimize torque ripple and acoustic noise of switched reluctance motors, Doktora, E.BİZKEVELCİ(Öğrenci), 2008

ERTAN H. B., Paralel etkin süzgeç tasarımı, denetimi ve gerçekleştirilmesi, Yüksek Lisans, M.Tunç(Öğrenci), 2007

ERTAN H. B., Asenkron motor parametrelerinin ve hızının katalog bilgilerinden ve ölçümlerden tahmini., Yüksek Lisans, Ç.Hakkı(Öğrenci), 2005

ERTAN H. B., Anahtarlamalı relüktans motorun analizi ve dizayn optimizasyonu için bir bilgisayar programı., Yüksek Lisans, L.Burak(Öğrenci), 2004

ERTAN H. B., Üçüncü harmonik akım enjekte edilen altı fazlı bir asenkron motorun çekirdek kayıplarının hesaplanması., Yüksek Lisans, A.Büyükbaş(Öğrenci), 2004

ERTAN H. B., Vektör kontrollü asenkron motor sürücü uygulaması., Yüksek Lisans, A.Acar(Öğrenci), 2004

ERTAN H. B., Güç seviyesindeki sinüs dalga şekillerinin sentezlenmesinde yeni bir yaklaşım., Yüksek Lisans, S.Paki(Öğrenci), 2004

ERTAN H. B., Dört bölge bilgisayar temelli motor test sistemi geliştirilmesi, Yüksek Lisans, T.İnan(Öğrenci), 2003

ERTAN H. B., A Control system for solar-electric energy conversion system, Yüksek Lisans, A.YILMAZ(Öğrenci), 2002

ERTAN H. B., A Unity power factor resonant inverter with single transistor for induction cooking, Yüksek Lisans, B.ÇOLAK(Öğrenci), 2002

ERTAN H. B., Performance calculation of single phase permanent magnet synchronous motors for design optimization, Yüksek Lisans, B.DAĞ(Öğrenci), 2002

ERTAN H. B., A Software for dynamic simulation of switched reluctance motor, Yüksek Lisans, M.ÖZGÜR(Öğrenci), 2001

ERTAN H. B., A Study on evaluation of direct torque and field orientation control of induction machines, Yüksek Lisans, H.KAVAKLI(Öğrenci), 2000

ERTAN H. B., Fuzzy control of resonant inverter circuit for x-ray power supply, Yüksek Lisans, T.ÇAMLIKAYA(Öğrenci), 1999

ERTAN H. B., Implementation of vector control for induction motor drives, Yüksek Lisans, H.CAN(Öğrenci), 1999

ERTAN H. B., Determination of equivalent circuit parameters of three phase induction machines with finite elements, Yüksek Lisans, A.ÇEKİÇ(Öğrenci), 1998

ERTAN H. B., Computation of core losses in three phase smooth rotor induction motors using finite element method, Yüksek Lisans, M.PİRGAİP(Öğrenci), 1998

ERTAN H. B., Design optimization of three phase induction motors, Yüksek Lisans, S.HAMARAT(Öğrenci), 1997

ERTAN H. B., An investigation on phase angle vector control for three phase induction motors., Doktora, A.Erbil(Öğrenci), 1996

ERTAN H. B., A Microprocessor based fuzzy controller for an induction heating system, Yüksek Lisans, H.KARABUDAK(Öğrenci), 1995

ERTAN H. B., Zero voltage switching pulse frequency modulated inverter, Yüksek Lisans, S.MUTLU(Öğrenci), 1994

ERTAN H. B., A Compact Pfm controller converter with wide speed range for 3 phase induction motors, Yüksek Lisans, N.BALKAN(Öğrenci), 1994

ERTAN H. B., Asynchronous harmonic torque effects on the torque speed curve of the squirrel cage induction motor, Yüksek Lisans, M.AYAN(Öğrenci), 1994

- ERTAN H. B., A Software for predicting quasi stationary characteristics of sr motors, Yüksek Lisans, F.NİAKAN(Öğrenci), 1993
- ERTAN H. B., Computer aided design of single-phase capacitor-type induction motors, Yüksek Lisans, M.AFTAHI(Öğrenci), 1993
- ERTAN H. B., Inverter design for maximum power transfer in induction heating, Yüksek Lisans, M.ATAVI(Öğrenci), 1991
- ERTAN H. B., Optimum design of single phase capacitor start motors, Yüksek Lisans, İ.GÜLER(Öğrenci), 1990
- ERTAN H. B., Design and spice simulation of a thyristorized medium frequency current fed inverter, Yüksek Lisans, Y.DEMİRTÜRK(Öğrenci), 1989
- ERTAN H. B., A Mid-point inverter for induction machine speed control, Yüksek Lisans, A.DİNÇER(Öğrenci), 1987
- ERTAN H. B., New algorithms and techniques for microprocessor-controlled PWM induction drives, Doktora, O.KÜKRER(Öğrenci), 1987
- ERTAN H. B., Optimum design of switching reluctance motors., Doktora, M.Tohumcu(Öğrenci), 1985

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- I. **Real-Time Speed and Position Estimation Using Rotor Slot Harmonics**
Keysan O., ERTAN H. B.
IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, cilt.9, sa.2, ss.899-908, 2013 (SCI-Expanded)
- II. **High-frequency loss calculation in a smooth rotor induction motor using FEM**
Ertan H. B., Leblebicioglu K., Avenoglu B., Pirgaip M.
IEEE TRANSACTIONS ON ENERGY CONVERSION, cilt.22, sa.3, ss.566-575, 2007 (SCI-Expanded)
- III. **Archery performance level and repeatability of event-related EMG**
Soylu A. R., Ertan H., Korkusuz F.
HUMAN MOVEMENT SCIENCE, cilt.25, sa.6, ss.767-774, 2006 (SCI-Expanded)
- IV. **Steady-state modeling of a phase-shift PWM parallel resonant converter**
Iskender I., Uctug Y., Ertan H. B.
COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING, cilt.25, sa.4, ss.883-899, 2006 (SCI-Expanded)
- V. **DSP microcontroller-based fuzzy control of a DC/DC parallel resonant converter using phase-shift PWM technique**
Iskender I., Uctug Y., Ertan H. B.
COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING, cilt.25, sa.4, ss.827-840, 2006 (SCI-Expanded)
- VI. **Calculation of parameters of single-phase PM motor for design optimization**
Ertan H., Dag M., Capolino G.
IEEE TRANSACTIONS ON ENERGY CONVERSION, cilt.20, sa.3, ss.538-548, 2005 (SCI-Expanded)
- VII. **Reliability and validity testing of an archery chronometer**
Ertan H., Kentel B., Tumer S., Korkusuz F.
JOURNAL OF SPORTS SCIENCE AND MEDICINE, cilt.4, sa.2, ss.95-104, 2005 (SCI-Expanded)
- VIII. **Powder metal development for electrical motor applications**
Bayramli E., Golgelioglu O., Ertan H.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, cilt.161, ss.83-88, 2005 (SCI-Expanded)
- IX. **Quantification the relationship between FITA scores and EMG skill indexes in archery**
Ertan H., Soyly A., Korkusuz F.
JOURNAL OF ELECTROMYOGRAPHY AND KINESIOLOGY, cilt.15, sa.2, ss.222-227, 2005 (SCI-Expanded)
- X. **Comparison of PWM and PFM induction drives ID in, egarding audible noise and vibration for household applications**
Ertan H., Simsir N.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.40, sa.6, ss.1621-1628, 2004 (SCI-Expanded)
- XI. **Factors affecting the shoulder proprioceptive sense among male volleyball players**

- Kablan N., Ertan H., Unver F., Kirazci S., Korkusuz F.
ISOKINETICS AND EXERCISE SCIENCE, cilt.12, sa.3, ss.193-198, 2004 (SCI-Expanded)
- XII. **Activation patterns in forearm muscles during archery shooting**
Ertan H., Kentel B., Tumer S., Korkusuz F.
HUMAN MOVEMENT SCIENCE, cilt.22, sa.1, ss.37-45, 2003 (SCI-Expanded)
- XIII. **Optimum geometry for torque ripple minimization of switched reluctance motors**
Sahin F., Ertan H., Lelebicioglu K.
IEEE TRANSACTIONS ON ENERGY CONVERSION, cilt.15, sa.1, ss.30-39, 2000 (SCI-Expanded)
- XIV. **Prediction of torque and inductance displacement characteristics of asymmetrically slotted variable-reluctance motors using a simplified model for numerical field solution**
Ertan H.
IEEE TRANSACTIONS ON MAGNETICS, cilt.35, sa.5, ss.4247-4258, 1999 (SCI-Expanded)
- XV. **VARIOUS INDUCTION GENERATOR SCHEMES FOR WIND ELECTRICITY-GENERATION**
ERMIS M., ERTAN H., DEMIREKLER M., SARIBATIR B., UCTUG Y., SEZER M., CADIRCI I.
ELECTRIC POWER SYSTEMS RESEARCH, cilt.23, sa.1, ss.71-83, 1992 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Analytical Modelling, Simulation and Comparative Study of Multi-Junction Solar Cells Efficiency**
Hadjida A., Bourahla M., ERTAN H. B., Bekhti M.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, cilt.8, sa.4, ss.1824-1832, 2018 (ESCI)

Kitap & Kitap Bölümleri

- I. **Transformers Analysis Design and Measurement**
ERTAN H. B.
CRC press, 2012

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Investigation of the Effects of Switching Technique on the Performance of Four Switch Buck-Boost Bidirectional DC/DC Converters**
Kocak I., ERTAN H. B.
International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) / International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), İstanbul, Türkiye, 27 - 29 Ağustos 2019, ss.395-401
- II. **Integration of Offshore Wind Farm Plants to the Power Grid using an HVDC line Transmission**
Berkani A., Pourkevannour S., Negadi K., Boumediene B., Allaoui T., Ertan H. B.
International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) / International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), İstanbul, Türkiye, 27 - 29 Ağustos 2019, ss.486-492
- III. **FEM-Based Design Modifications and Efficiency Improvements of a Brushed Permanent Magnet DC Motor**
Tarvirdilu-Asl R., Zeinali R., ERTAN H. B.
International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romanya, 25 - 27 Mayıs 2017, ss.401-407
- IV. **Magnetically Geared Direct Drive Wind Generator Thermal Analysis**
Zeinali R., ERTAN H. B., Yamali C., Tarvirdilu-Asl R.

International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romanya, 25 - 27 Mayıs 2017, ss.462-469

- V. **Development of Model for DC Link Filter Design**
ERTAN H. B., Kayhan M.
IEEE Transportation Electrification Conference and Expo (ITEC), Michigan, Amerika Birleşik Devletleri, 27 - 29 Haziran 2016
- VI. **PM brushed DC motor optimization**
Rasul T., Reza Z., ERTAN H. B., Yavuz T.
ISEF, Valencia, İspanya, 10 - 12 Eylül 2015
- VII. **Evaluation of a 6 pole axial flux PM motor for Control Moment Gyroscope Application**
Zeinali R., ERTAN H. B.
Int Aegean Conference on Electrical Machines and Power Electronics (ACEMP) / Int Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Int Symposium on Advanced Electromechanical Motion Systems (ELECTROMOTION), Side, Türkiye, 2 - 04 Eylül 2015
- VIII. **Three phase Inverter Speed Control of AC Drives Motor using DSPic microcontroller**
Dida A. H., Bourahla M., ERTAN H. B., Benghanem M., Benzina M. E.
Int Aegean Conference on Electrical Machines and Power Electronics (ACEMP) / Int Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Int Symposium on Advanced Electromechanical Motion Systems (ELECTROMOTION), Side, Türkiye, 2 - 04 Eylül 2015, ss.93-101
- IX. **Sinus Output 3-Phase Inverter Topology for Improved Drive Efficiency**
ERTAN H. B., Sener Y.
16th International Power Electronics and Motion Control Conference and Exposition (PEMC), Antalya, Türkiye, 21 - 24 Eylül 2014, ss.1350-1357
- X. **Design, Development and Implementation of Sensorless Digital Control of an Electric Motorization**
Dida A. H., Bourahla M., ERTAN H. B., Benghanem M.
16th International Power Electronics and Motion Control Conference and Exposition (PEMC), Antalya, Türkiye, 21 - 24 Eylül 2014, ss.482-489
- XI. **Comparison of Outer Rotor Radial Flux and Axial Flux PM Motors for CMG Application**
ERTAN H. B., Cagan N.
International Conference on Electrical Machines (ICEM), Berlin, Almanya, 2 - 05 Eylül 2014, ss.1031-1036
- XII. **Implementation issues of real time position estimation for induction motors using rotor slot harmonics**
ERTAN H. B., Keysan O.
2013 4th International Conference on Power Engineering, Energy and Electrical Drives, POWERENG 2013, İstanbul, Türkiye, 13 - 17 Mayıs 2013, ss.1826-1832
- XIII. **Evaluation of Inductance Measurement Methods for PM Machines**
ERTAN H. B., ŞAHİN İ.
20th International Conference on Electrical Machines (ICEM), Marseille, Fransa, 2 - 05 Eylül 2012, ss.1672-1678
- XIV. **Comparison of Efficiency of Two dc-to-ac Converters for Grid Connected Solar Applications**
ERTAN H. B., Dogru E., Yilmaz A.
13th International Conference on Optimization of Electrical and Electronic Equipment, Brasov, Romanya, 24 - 26 Mayıs 2012, ss.879-886
- XV. **A Proposal for Improving Efficiency of Inverter Driven Electrical Motors**
ERTAN H. B., Dogru E.
General Meeting of the IEEE-Power-and-Energy-Society (PES), Michigan, Amerika Birleşik Devletleri, 24 - 28 Temmuz 2011
- XVI. **Higher Order Rotor Slot Harmonics for Rotor Speed & Position Estimation**
Keysan O., ERTAN H. B.
12th International Conference on Optimization of Electrical and Electronic Equipment, Brasov, Romanya, 20 - 21 Mayıs 2010, ss.416-417
- XVII. **Determination of rotor slot number of an induction motor using an external search coil**

KEYSAN O., ERTAN H. B.

16th International Symposium on Electrical Apparatus and Technologies, SIELA 2009, Burgas, Bulgaristan, 4 - 06 Haziran 2009, cilt.2, ss.141-148

XVIII. Performance Calculation of SR Motors for Optimum Design and a Washing Machine Application

ERTAN H. B., Yalciner L. B.

International Conference on Electrical Machines, Vilamoura, Portekiz, 6 - 09 Eylül 2008, ss.2081-2082

XIX. Identification of parameters of an induction motor from field solution

Ertan H., Leblebicioglu K., Avenoglu B., Ercan B.

6th International Conference on Electrical Machines and Systems, Beijing, Çin, 9 - 11 Kasım 2003

XX. A new technique for shortening the EMI filter development stage

Colak B., Ertan H.

IEEE International Symposium on Electromagnetic Compatibility (EMC), İstanbul, Türkiye, 11 - 16 Mayıs 2003, ss.603-608

XXI. An induction motor design tool combining analytical and field solution techniques

Ertan H., Bizkevelci E., Avenoglu B.

International Symposium on Electromagnetic Fields in Electrical Engineering, Krakow, Polonya, 01 Ocak 2001, cilt.22, ss.184-189

XXII. A software for simulation and controller development for high frequency high voltage power supplies

Ertan H., Camlikaya T., Demirel O.

3rd International Power Electronics and Motion Control Conference (IPEMC 2000), Beijing, Çin, 15 - 18 Ağustos 2000, ss.665-670

XXIII. A FIELD ORIENTATION SCHEME FOR VOLTAGE FED INDUCTION MOTOR, WITH CLOSED LOOP PHASE ANGLE CONTROL

NALCACI A., ERTAN H.

5th International Conference on Power Electronics and Variable-Speed Drives (PEVD94), London, Kanada, 26 - 28 Ekim 1994, ss.72-77

Desteklenen Projeler

ERTAN H. B., Yükseköğretim Kurumları Destekli Proje, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

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