

Assoc. Prof. HÜSEYİN DEMİREL

Personal Information

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Education Information

Doctorate, Gazi Üniversitesi, Bilişim Enstitüsü, Elektronik Bilgisayar Eğitimi (Dr), Turkey 1999 - 2010

Post Graduate, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Bilgisayar Eğitimi (YI) (Tezli), Turkey 1997 - 1999

Under Graduate, Gazi Üniversitesi, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, Turkey 1993 - 1997

Foreign Languages

English, C2 Proficiency

Dissertations

Doctorate, Peltier elemanlarla hipotermiya uygulamasında sıcaklık kontrolü ve yapay sinir ağları ile modellenmesi, Gazi Üniversitesi, Bilişim Enstitüsü, Elektronik Bilgisayar Eğitimi (Dr), 2010

Post Graduate, Bilgisayar kontrollü kapalı devre TV deney seti tasarımı ve gerçekleştirilmesi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Bilgisayar Eğitimi (YI) (Tezli), 1999

Academic Titles / Tasks

Associate Professor, Karabuk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2018 - Continues

Assistant Professor, Karabuk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2010 - 2018

Lecturer, Karabük Üniversitesi, Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü, 2005 - 2010

Research Assistant, Gazi Üniversitesi, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, 1998 - 2005

Professional Experience

Head of Department, Karabuk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2012 - 2016

Assistant Director of the Institute, Karabük Üniversitesi, Fen Bilimleri Enstitüsü, 2013 - 2015

Head of Department, Karabük Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2011 - 2012

Head of Department, Karabük Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2010 - 2011

Assistant Director of Vocational School, Karabük Üniversitesi, Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü, 2009 - 2010

Head of Department, Karabük Üniversitesi, Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü, 2005 - 2009

Courses

DEVRE ANALİZİ, Under Graduate, 2016 - 2017
LOGIC CIRCUITS, Under Graduate, 2016 - 2017
MANTIK DEVRELERİ, Under Graduate, 2016 - 2017
ELECTRONICS I, Under Graduate, 2014 - 2015
ELEKTRONİK II, Under Graduate, 2014 - 2015

Advising Theses

DEMİREL H., SERBESTLİK DERECESE İKİ OLAN İNSAN KOLUNUN HAREKETİNİN CPG (MERKEZİ DESEN ÜRETEÇLERİ) METODU KULLANILARAK OPTİMİZASYONU, Doctorate, LAHMED(Student), 2018
Demirel H., Küçük ölçekli rüzgâr ve nehir santralleri için 4 KW gücünde kalıcı mıknatıslı senkron generatör tasarımı ve gerçekleştirilmesi, Doctorate, Y.ÇETİNCEVİZ(Student), 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Transient analysis with coupled field-circuit model and experimental assessment of a PMSG used in small-scale wind turbine for water heating purpose**
ÇETİNCEVİZ Y., ŞEHİRLİ E., Uygun D., OCAK C., DEMİREL H.
ELECTRICAL ENGINEERING, 2019 (Journal Indexed in SCI)
- II. **Moving object detection using an adaptive background subtraction method based on block-based structure in dynamic scene**
Savas M. F. , DEMİREL H., ERKAL B.
OPTİK, vol.168, pp.605-618, 2018 (Journal Indexed in SCI)
- III. **Performance and cooling efficiency of thermoelectric modules on server central processing unit and Northbridge**
TAN S. O. , DEMİREL H.
COMPUTERS & ELECTRICAL ENGINEERING, vol.46, pp.46-55, 2015 (Journal Indexed in SCI)
- IV. **A VHDL application for kinematic equation solutions of multi-degree-of-freedom systems**
ERKOL H. O. , DEMİREL H.
JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE C-COMPUTERS & ELECTRONICS, vol.15, pp.1164-1173, 2014 (Journal Indexed in SCI)
- V. **Performance evaluation of a fuzzy variable structure satellite attitude controller under sensor data delay**
ERKAL B., DEMİREL H.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.22, pp.517-528, 2014 (Journal Indexed in SCI)
- VI. **Prediction of the brain temperature from other body temperatures in hypothermia induced rats by using artificial neural networks**
DEMİREL H., GÖKTAŞ H. H. , ERKAL B., CİYLAN B.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.42, pp.772-777, 2012 (Journal Indexed in SCI)
- VII. **Control of the Bed Temperature of a Circulating Fluidized Bed Boiler by using Particle Swarm Optimization**
AYGÜN H., DEMİREL H., Cernat M.
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.12, pp.27-32, 2012 (Journal Indexed in SCI)
- VIII. **Design of a universal thermoelectric module test system for testing rat brain thermoelectric hypothermia**
Demirel H., Ciyilan B., Erkal B., Yilmaz S.
IET Science, Measurement and Technology, vol.1, pp.160-165, 2007 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- I. **Optimizing Nonlinear Oscillators for OneArm with Two Joints**
ABDALSMD L., HANÇERLİOĞULLARI A., DEMİREL H.
International Journal of Computer Science And Technology, vol.8, 2017 (Refereed Journals of Other Institutions)
- II. **ARTIFICIAL NEURAL NETWORK BASED PREDICTION OF INTENSITY OF INSOLATION IN THE CITY OF KASTAMONU USING METEOROLOGICAL DATA**
GÜLEÇ H. G. , DEMİREL H.
e-Journal of New World Sciences Academy, vol.12, pp.114-121, 2017 (Refereed Journals of Other Institutions)
- III. **Moving Object Detection Using an Adaptive Background Modeling in Dynamic Scene**
Savaş M. F. , DEMİREL H., ERKAL B.
ejens, european journal of engineering and natural sciences, vol.2, pp.161-167, 2017 (Refereed Journals of Other Institutions)
- IV. **A Novel MPPT Method for PV Arrays Based on Modified Bat Algorithm with Partial Shading Capability**
Karagoz M. K. , DEMİREL H.
INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND NETWORK SECURITY, vol.17, pp.61-66, 2017 (Journal Indexed in ESCI)
- V. **Noise Reduction using MRF and Block-Based Background Modeling in Dynamic Scenes Input**
Savas M. F. , DEMİREL H.
INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND NETWORK SECURITY, vol.17, pp.54-59, 2017 (Journal Indexed in ESCI)
- VI. **Design, Implementation and Evaluation of Fuzzy Logic and PID Controllers for Fuel Cell Systems**
Frei A. A. M. , DEMİREL H., ERKAL B.
International Journal of Electronics and Electrical Engineering, pp.84-89, 2017 (Refereed Journals of Other Institutions)
- VII. **Optimal Design and Verification of a PM Synchronous Generator For Wind Turbines**
ÇETİNCEVİZ Y., UYGUN D., DEMİREL H.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.7, pp.1324-1332, 2017 (Journal Indexed in ESCI)
- VIII. **Design and implementation of an 18 dof six legged robot ABR1**
ERKOL H. O. , DEMİREL H.
International Journal of Advanced Research in Computer Engineering Technology (IJARCET), vol.5, pp.1756-1762, 2016 (Refereed Journals of Other Institutions)
- IX. **TERMOELEKTRİK MALZEME İLE SEYYAR SU SOĞUTUCU UYGULAMASI**
ERKOL H. O. , DEMİREL H.
TÜBAV BİLİM DERGİSİ, vol.5, pp.16-20, 2012 (Other Refereed National Journals)

Books & Book Chapters

- I. **ELEKTRONİK I**
DEMİREL H.
BİRSEN YAYINEVİ, Karabük, 2018
- II. **TEMEL ELEKTRİK ELEKTRONİK**
DEMİREL H.
BİRSEN YAYINEVİ, İstanbul, 2018
- III. **DEVRE ANALİZİ**
DEMİREL H.
BİRSEN YAYINEVİ, İstanbul, 2017
- IV. **DC AC DEVRE ANALİZİ**

- DEMİREL H.
BİRSEN YAYINEVİ, İstanbul, 2017
- V. **Basic Electrical-Electronics**
DEMİREL H., ERKAL B.
BİRSEN YAYINEVİ, İstanbul, 2017
- VI. **ELEKTRONİK II**
DEMİREL H.
BİRSEN YAYINEVİ, İstanbul, 2017
- VII. **ELEKTRONİK DEVRE ELEMANLARI VE ELEKTRONİK DEVRELER**
DEMİREL H.
BİRSEN YAYINEVİ, Karabük, 2015
- VIII. **SAYISAL ELEKTRONİK**
DEMİREL H.
BİRSEN YAYINEVİ, Karabük, 2015
- IX. **Elektronik Devre Elemanları ve Devre Deneyleri-I**
DEMİREL H., CİYLAN B.
Yok, 2003
- X. **TEMEL BİLGİ TEKNOLOJİLERİ KULLANIMI**
DEMİREL H.
GAZİ KİTAPEVİ, Ankara, 2002

Refereed Congress / Symposium Publications in Proceedings

- I. **A Novel MPPT Method for PV Arrays Based on Modified Bat Algorithm and Incremental Conductance Algorithm with Partial Shading Capability**
DEMİREL H., KARAGÖZ k., ERKAL B.
ICESE, International Conference on Energy Systems Engineering, Karabük, Turkey, 2 - 04 November 2017
- II. **Bilimsel Yetiştiricilik Uygulamaları için DLI (Daily Light Integral) ve Spektrum Kontrol Sistemlerinin Geliştirilmesi**
DEMİREL H., ÖZDEMİR Y.
1st International Conference on Energy Systems Engineering, 2 - 04 November 2017
- III. **PIC Kontrollü Termoelektrik Modül ile Arı Kovanı İç Sıcaklığının Stabil Tutulması**
DEMİREL H., ÖZKUL A., ALTINKAYA H.
First International Conference on Energy Systems Engineering, 2 - 04 November 2017
- IV. **Fotovoltaik Destekli Düşürücü Dönüştürücü ile Arduino Kontrollü Batarya Şarj Uygulaması**
GÜLEÇ H. G. , DEMİREL H., KAYA Ü.
2nd International Conference on Advanced Engineering Technologies (ICADET 2017), Bayburt, Turkey, 21 - 23 September 2017, pp.991-996
- V. **Optimization of Central Pattern Generators for control the one arm motion**
ABDALSMD L., HANÇERLİOĞULLARI A., DEMİREL H.
ICADET'xx17 INTERNATIONAL CONFERENCE ON ADVANCED ENGINEERING TECHNOLOGY, 21 - 23 September 2017
- VI. **Güneş Enerji Destekli Arduino Kontrollü Bir Batarya Şarj Uygulaması**
GÜLEÇ H. G. , DEMİREL H.
Uluslararası Mühendislik Araştırmaları Sempozyumu (UMAS'xx2017), Düzce, Turkey, 11 October - 13 September 2017, pp.147-154
- VII. **Precipating of Sinter Powder by ESP and Effects of Sinter Powder on ESP Efficiency**
DEMİREL H., BALIK A., ÇAYIR E.
3rd Iron and Steel Symposium, 3 - 05 April 2017
- VIII. **Developing DLI Daily Light Integral and Spectrum Control Systems for Scientific Cultivation in**

Agriculture

DEMİREL H., ÖZDEMİR Y., YILDIRIM Y. E.

Uluslararası Konferans, 19 - 24 October 2016

- IX. **Microcontroller based Cooling of a Single phase Transformer with Thermoelectric Module**
DALCALI A., DEMİREL H., ÇELİK E.
Uluslararası Konferans, 13 - 14 October 2016
- X. **MPPT for Arrays Based on Bat Algorithm with Partial Shading Capability**
DEMİREL H., KARAGÖZ K., ERKAL B.
Uluslararası Konferans, 24 - 28 May 2016
- XI. **Moving Object Detection Using an Adaptive Background Modelling in Dynamic Scene**
SAVAŞ F. M. , DEMİREL H., ERKAL B.
Uluslararası Konferans, 24 - 28 May 2016
- XII. **Design Implementation and Evaluation of Fuzzy Logic and PID Controller for Fuel Cell Systems**
FREİ A., DEMİREL H., ERKAL B.
Uluslararası Konferans, 11 - 12 April 2016
- XIII. **MPPT for PV Arrays Based on Bat Algorithm with Partial Shading Capability**
DEMİREL H., karagöz K., ERKAL B.
ICENS, Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016, pp.2622-2628
- XIV. **Moving Object Detection Using an Adaptive Background Modeling in Dynamic Scene**
Savaş M. F. , DEMİREL H., ERKAL B.
ICENS, Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016, pp.415-422
- XV. **The Correlation between Cpu Core Temperatures of a Server under Specific Cooling Systems**
TAN S. O. , DEMİREL H.
International Conference on Engineering and Natural Science (ICENS 2015), üsküp, Macedonia, 15 - 19 May 2015, pp.262-268
- XVI. **Çocuklarda Hepatosteatoz Derecelendirmede Karaciğer Böbrek Ekojenite İndeksi**
ÇAĞRI D., YILMAZ Y., DERİNKUYU B. E. , ALIMLI A. G. , ÖZTUNALI Ç., ÇELİK N., ÖZNUR B., DEMİREL H.
Türk Radyoloji Derneği Türkrad2015 36. Ulusal Radyoloji Kongresi, Turkey, 14 - 16 June 2015
- XVII. **On off Controller Design for a Portable Refrigerator**
Atıl Emre Ç., DEMİREL H.
International Conference Intelligent Technologies in Logistics and Mechatronics Systems (ITELMS'2015), Panevezhys, Lithuania, 21 - 22 May 2015
- XVIII. **An FPGA Based Robot Controller Design and Implementation**
ERKOL H. O. , DEMİREL H.
International Conference Intelligent Technologies in Logistics and Mechatronics Systems (ITELMS'2015), Panevezhys, Lithuania, 21 - 22 May 2015
- XIX. **Remote Controlled Walking Robot**
ERKOL H. O. , DEMİREL H.
International Conference on Research in Education and Science, Antalya, Turkey, 23 - 26 April 2015
- XX. **UZAKTAN KUMANDA EDİLEBİLEN YÜRÜYEN ROBOT**
ERKOL H. O. , DEMİREL H.
International Conference on Research in Education and Science (ICRES), Antalya, Turkey, 23 - 26 April 2015, pp.395-405
- XXI. **Multi-Criterion Design and 2D Cosimulation Model of 4 kW PM Synchronous Generator For Standalone Run-of-the-River Stations**
ÇETİNCEVİZ Y., Uygun D., DEMİREL H.
4th International Conference on Renewable Energy Research and Applications (ICRERA), Palermo, Italy, 22 - 25 November 2015, pp.1470-1476
- XXII. **FPGA ile Seri Port Tasarımı ve Uygulaması**
ERKOL H. O. , DEMİREL H.
Otomatik Kontrol Ulusal Toplantısı, TOK2013, Malatya, Turkey, 26 - 28 September 2013, pp.132-135

- XXIII. **Comparison of PSO PID FLC and PID in a Circulating Fluidized Bed Boiler**
AYGÜN H., DEMİREL H.
7th International Conference on Electrical and Electronic Engineering ELECO 2011, Bursa, Turkey, 2 - 04 April 2012, vol.2, pp.355-359
- XXIV. **The efficiency of using thermoelectric module on CPU systems in the perspective of cooling**
TAN S. O. , DEMİREL H., TÜRKER İ.
2nd World Conference on Information Technology (WCIT-2012), Antalya, Turkey, 22 - 27 November 2011, pp.1069-1073
- XXV. **Parçacık Sürüsü Optimizasyonunda Farklı Hedef Fonksiyonları Kullanılmasının Dolaylı Akışkan Yataklı Buhar Kazanında Etkileri**
AYGÜN H., DEMİREL H.
International Iron Steel Symposium, Karabük, Turkey, 2 - 04 April 2012, pp.1040-1045

Supported Projects

- DEMİREL H., KARAGÖZ M. K. , Project Supported by Higher Education Institutions, Adaptif Kontrollü Maksimum Güç Noktası İzleyici Tasarımı, 2016 - Continues
- DEMİREL H., ÖZDEMİR Y., Project Supported by Higher Education Institutions, Tarımda Bilimsel Yetiştiricilik için DLI ve Spektrum Kontrol Sistemlerinin Geliştirilmesi, 2015 - Continues
- DEMİREL H., SAVAŞ M. F. , Project Supported by Higher Education Institutions, Hareketli Senaryolarda Arka Plan Modellemeli Nesne Belirleme Sisteminin Tasarımı, 2016 - 2019
- DEMİREL H., Project Supported by Higher Education Institutions, MPPT FOR PV ARRAYS BASED ON BAT ALGORITHM WITH PARTIAL SHADING CAPABILITY, 2016 - 2016
- DEMİREL H., TUBİTAK Project, TUBİTAK 1002 Hızlı Destek Projesi, 2015 - 2016
- DEMİREL H., TUBİTAK Project, TUBİTAK 3001 Başlangıç AR GE Projesi, 2014 - 2016
- DEMİREL H., TUBİTAK Project, TUBİTAK 2209A, 2014 - 2015
- DEMİREL H., Project Supported by Higher Education Institutions, KİNEMATİK DENKLEMLERİN FPGA İLE ÇÖZÜLMESİ VE ÇOK EKLEMLİ YAPILARA UYGULANMASI, 2013 - 2014
- DEMİREL H., Project Supported by Higher Education Institutions, PC SERVERLARIN PELTİER MODÜLLERDE SOĞUTULMASI SİSTEMİNİN TASARIMI VE GERÇEKLEŞTİRİLMESİ, 2012 - 2013
- DEMİREL H., Project Supported by Higher Education Institutions, AKIŞKAN YATAKLI BUHAR KAZANININ YATAK SICAKLIĞININ PARÇACIK SÜRÜSÜ OPTİMİZASYONU TABANLI PID KONTROLÖR (PSO-PID) İLE KONTROLÜ, 2011 - 2012

Citations

Total Citations (WOS):31

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