

Assoc. Prof. MUSTAFA ERGİN ŞAHİN

Personal Information

Office Phone: +90 464 223 6126 Extension: 1147

Email: mustafa.sahin@erdogan.edu.tr

Web: <https://avesis.erdogan.edu.tr/mustafa.sahin>

Address: RTE Üniversitesi Elektrik Elektronik Mühendisliği Bölümü

Education Information

Post Doctorate, Aalborg Universitet (Aalborg University), The Faculty Of Engineering And Science, Department Of Energy Technology (Director: Prof. Frede Blaabjerg), Denmark 2018 - 2019

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği Anabilim Dalı , Turkey 2008 - 2014

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği Anabilim Dalı , Turkey 2003 - 2006

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği, Turkey 1997 - 2002

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, Understand How to Write Good Papers for High Level Journals, Aalborg University (Lecturer Prof. Frede Blaabjerg and Prof. Kaiyuan Lu), 2019

Education Management and Planning, Power Quality and Synchronization Techniques in Microgrids, Aalborg University (Lecturer Prof. Josep M. Guerrero, Prof. Juan V. Vasquez), 2019

Education Management and Planning, Stability and Control of Grid Forming Power Electronics Systems, Aalborg University (Lecturer Prof. Xiongfei Wang, Prof. Pedro Rodriguez) , 2019

Education Management and Planning, Application Oriented Modelling of Renewable Energy Sources, Conversion and Energy Storage Systems, Aalborg University (Lecturer Dr. Sergua Spataru), 2019

Education Management and Planning, Introduction to Wind Power (Generation and Integration), Aalborg University (Lecturer Prof. Zhe Chen), 2019

Education Management and Planning, Reluctance Electric Motor Drives for High Efficiency in Line Start and Variable Speed Applications, Aalborg University (Lecturer Prof. Ion Boldea), 2018

Education Management and Planning, Capacitors in Power Electronics Applications, Aalborg University (Lecturer Prof. Huai Wang), 2018

Education Management and Planning, Ulakbim Eğitim ve Yazar 6. Eğitim Semineri, TÜBİTAK, 2015

Quality Management, TSE Temel, Dokümantasyon, İç Tetkik ve Ölçüm Belirsizliği, TSE, 2014

Education Management and Planning, Fizik ve Yenilikçi Teknolojiler Çalıştayı, RTE Üniversitesi, 2014

IT, Uygulamalı Matlab Eğitim Semineri, FİGES, Rize Üniversitesi, 2010

Other, Doğu Karadeniz Bölgesi Enerji Forumu, EMO-KTÜ, 2009

Dissertations

Doctorate, Karma Enerji Sistemi İçin Paralel Bağlı Azaltan-Artıran Çevirici Tasarımı ve Denetimi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği Anabilim Dalı , 2014
Postgraduate, Senkron Buck Dönüştürücü İle Elektroliz Olayının Gerçekleştirilmesi, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği Anabilim Dalı , 2006

Research Areas

Electrical and Electronics Engineering, Electronic, Electronic Circuits, Electromagnetic, Electromagnetic Environment and Interaction, Energy, Direct Energy Conversion and Energy Storage, Renewable energy, Power Electronics, Power Converters, Chemistry, Physical Chemistry, Electrochemistry, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Elektrik Ve Elektronik Mühendisliği Bölümü, 2021 - Continues
Assistant Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Elektrik Ve Elektronik Mühendisliği Bölümü, 2018 - 2021
Assistant Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Elektrik Ve Elektronik Mühendisliği Bölümü, 2015 - 2018
Lecturer, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2007 - 2015

Academic and Administrative Experience

Recep Tayyip Erdogan University, Elektrik Elektronik Mühendisliği, 2018 - 2019
Recep Tayyip Erdogan University, Fizik, 2012 - 2012
Recep Tayyip Erdogan University, Fizik, 2012 - 2012

Courses

Ölçme Teknikleri ve Enstrumantasyon, Undergraduate, 2018 - 2019
Proses Kontrol ve Enstrumantasyon, Postgraduate, 2017 - 2018
Elektrik Makinaları II, Undergraduate, 2017 - 2018
Kontrol Sistemleri, Undergraduate, 2017 - 2018
Devre Teorisi ve Analizi, Undergraduate, 2017 - 2018
Elektrik Makinaları I, Undergraduate, 2017 - 2018
Elektrik Makinaları, Undergraduate, 2017 - 2018
Elektrik-Elektronik (5 Yıl), Undergraduate, 2014 - 2015
Elektrik Müh. Giriş, Undergraduate, 2015 - 2016
Devre Analizi, Undergraduate, 2014 - 2015
Elektronikte Özel Konular, Undergraduate, 2012 - 2013
Yenilenebilir Enerji Kaynakları, Undergraduate, 2012 - 2013
TEMEL BİLGİSAYAR I-II (C++, MATLAB), Undergraduate, 2011 - 2012
Bilgisayara Giriş I-II(Ofis Progrmaları-Axcess-Front Page), Undergraduate, 2009 - 2010
Elektronik I-II Laboratuvarı (5 YIL), Undergraduate, 2007 - 2008
Bitirme Çalışması (5 Yıl), Undergraduate, 2007 - 2008

Advising Theses

Şahin M. E. , Kahveci H., Transformerless photovoltaic system fed single phase induction motor driver for water pumping, Postgraduate, S.FAIZAN(Student), 2020

ŞAHİN M. E. , DESIGN AND IMPLEMENTATION OF SINGLE INPUT MULTIPLE OUTPUT (SIMO) DC-DC BUCK CONVERTER FOR SOLAR ENERGY APPLICATION, Postgraduate, I.Abdillahi(Student), 2018

Advising Graduates (Non-Thesis)

Şahin M. E. , NESNELERİN İNTERNETİ UYGULAMALARINDA RİSK DEĞERLENDİRMESİ VE İŞ GÜVENLİĞİ İLİŞKİSİ, Masters (Non-Thesis), İ.BİLİCİ(Student), 2021

Şahin M. E. , İNŞAAT SEKTÖRÜNDE YAPAY ZEKA UYGULAMALARI VE RİSK YÖNETİMİ (Monte Carlo Yöntemi, Masters (Non-Thesis), G.OKAY(Student), 2021

Şahin M. E. , ENDÜSTRİ 4.0'IN İŞ SAĞLIĞI VE GÜVENLİĞİNE KATKILARI VE HATA TÜRÜ VE ETKİLERİ ANALİZİ(FMEA) RİSK DEĞERLENDİRME METODUYLA BİR İNCELEME, Masters (Non-Thesis), İ.TOPALOĞLU(Student), 2021

Şahin M. E. , İŞ SAĞLIĞI VE GÜVENLİĞİNDEKİ RİSK DEĞERLENDİRMELERİNDE YAPAY SİNİR AĞLARININ ETKİSİ, Masters (Non-Thesis), F.ATCI(Student), 2021

Şahin M. E. , TURİZM SEKTÖRÜNDE ENDÜSTRİ 4.0 ALANINDA Kİ RİSK DEĞERLENDİRME UYGULAMALAR, Masters (Non-Thesis), N.KURUOĞLU(Student), 2021

Jury Memberships

Appointment Academic Staff, Araştırma Görevlisi Alım Sınavı, Mühendislik Fakültesi , November, 2015

Academic Staff Examination, Öğretim Görevlisi Alım Sınavı , Rize Üniversitesi Meslek Yüksek Okulu , December, 2010

Competition, Eğitim Öğretim Yılı Eğitim Kurumları Arası Proje Tabanlı Beceri Yarışması İl Değerlendirme Komisyonu Üyesi., MEB, February, 2010

Competition, Eğitim Öğretim Yılı Eğitim Kurumları Arası Proje Tabanlı Beceri Yarışması İl Değerlendirme Komisyonu Üyesi., MEB, January, 2009

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

- I. **Parallel-Connected Buck-Boost Converter with FLC for Hybrid Energy System**
Şahin M. E. , Okumuş H. İ.
ELECTRIC POWER COMPONENTS AND SYSTEMS, 2021 (Journal Indexed in SCI)
- II. **A photovoltaic powered electrolysis converter system with maximum power point tracking control**
Sahin M. E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, pp.9293-9304, 2020 (Journal Indexed in SCI)
- III. **A Hybrid PV-Battery/Supercapacitor System and a Basic Active Power Control Proposal in MATLAB/Simulink**
Sahin M. E. , Blaabjerg F.
ELECTRONICS, vol.9, 2020 (Journal Indexed in SCI)
- IV. **An Efficient Switched Filter Compensation Used LED Lighting PV-Battery Scheme**
Sharaf A. M. , Sahin M. E.
JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, vol.27, no.10, 2018 (Journal Indexed in SCI)
- V. **Comparison of Different Controllers and Stability Analysis for Photovoltaic Powered Buck-Boost DC-DC Converter**
Sahin M. E. , OKUMUŞ H. İ.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.46, no.2, pp.149-161, 2018 (Journal Indexed in SCI)
- VI. **Design of a Laboratory Unit Air-Conditioning System with Matlab/Simulink Software**
KOCYIGIT N., ŞAHİN M. E.

- ACTA PHYSICA POLONICA A, vol.132, no.3, pp.839-842, 2017 (Journal Indexed in SCI)
- VII. **The Design Steps of a Hybrid Energy System**
Sahin M. E. , OKUMUŞ H. İ.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.1160-1164, 2017 (Journal Indexed in SCI)
- VIII. **Investigation of GSM, LTE and Wi-Fi Electromagnetic Radiation in Dwellings**
Karan Y., As N., Sahin M. E.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.509-512, 2017 (Journal Indexed in SCI)
- IX. **A Flexible PV-Powered Battery-Charging Scheme for Electric Vehicles**
Sharaf A. M. , Sahin M. E.
IETE TECHNICAL REVIEW, vol.34, no.2, pp.133-143, 2017 (Journal Indexed in SCI)
- X. **Design of Wave Energy Converter System with Linear Generator**
Sahin M. E. , OZDINC I.
ACTA PHYSICA POLONICA A, vol.128, 2015 (Journal Indexed in SCI)
- XI. **Implementation of an electrolysis system with DC/DC synchronous buck converter**
ŞAHİN M. E. , OKUMUŞ H. İ. , Aydemir M. T.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.39, no.13, pp.6802-6812, 2014 (Journal Indexed in SCI)
- XII. **Fuzzy logic controlled parallel connected synchronous buck DC-DC converter for water electrolysis**
Sahin M. E. , OKUMUŞ H. İ.
IETE JOURNAL OF RESEARCH, vol.59, no.3, pp.280-288, 2013 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Investigation of vertical axis wind turbines and the design of their components**
Boztaş A., Demirbaş O., Şahin M. E.
Turkish Journal of Electromechanics and Energy, vol.6, no.2, pp.64-72, 2021 (Refereed Journals of Other Institutions)
- II. **Electromagnetic Field Pollution Measurement in Recep Tayyip Erdoğan University Main Campus and Spectrum Analysis**
Dilek B., As N., Şahin M. E.
Recep Tayyip Erdoğan Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.2, no.1, pp.53-65, 2021 (National Refreed University Journal)
- III. **Modelling of Supercapacitors Based on Simplified Equivalent Circuit**
Şahin M. E. , Blaabjerg F., Sangwongwanich A.
CPSS Transactions on Power Electronics and Applications, vol.6, no.1, pp.31-39, 2021 (Refereed Journals of Other Institutions)
- IV. **Inductance Selection Criteria and Design Steps for Power Electronics Applications**
Şahin M. E.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.24, no.3, pp.689-695, 2020 (Other Refereed National Journals)
- V. **A Review on Supercapacitor Materials and Developments**
ŞAHİN M. E. , Blaabjerg F., Sangwongwanich A.
Turkish Journal of Materials, vol.5, no.2, pp.10-24, 2020 (Refereed Journals of Other Institutions)
- VI. **IG ve DFIG lerin Rüzgar Gücü Üretim Sistemleri İçin Karşılaştırılması**
ŞAHİN M. E.
Gazi Journal of Engineering Sciences, vol.6, no.3, pp.230-241, 2020 (Refereed Journals of Other Institutions)
- VII. **Açık Deniz Rüzgâr Sistemleri Üzerine Bir İnceleme ve Danimarka Modeli**
Şahin M. E.
Recep Tayyip Erdoğan Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.1, no.1, pp.54-67, 2020 (Other Refereed National Journals)
- VIII. **Energy Management and Measurement of Computer Controlled Solar House Model for Rize City**

ŞAHİN M. E.

Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, pp.404-414, 2020 (Other Refereed National Journals)

- IX. **An Efficient Solar-Hydrogen DC-DC Buck Converter System with Sliding Mode Control**
ŞAHİN M. E.
El-Cezeri Fen ve Mühendislik Dergisi, vol.6, no.3, pp.558-570, 2019 (Other Refereed National Journals)
- X. **Refreshing Turkish Journal of Electromechanics & Energy in its Fourth Year**
ŞAHİN M. E. , CORA Ö. N.
Turkish Journal of Electromechanics & Energy, vol.4, no.1, pp.1-2, 2019 (Refereed Journals of Other Institutions)
- XI. **Yapay Sinir Ağları ve Yapay Zekâ'ya Genel Bir Bakış**
Öztürk K., ŞAHİN M. E.
Takvim-i Vekayi, vol.6, no.2, pp.25-36, 2018 (Other Refereed National Journals)
- XII. **Single Input, Multiple Output DC-DC Buck Converter for Electric Vehicles**
Aden İ. A. , Kahveci H., Şahin M. E.
Turkish Journal of Electromechanics and Energy, vol.2, no.2, pp.7-13, 2017 (Refereed Journals of Other Institutions)
- XIII. **Second Year with "Turkish Journal of Electromechanics & Energy"**
ŞAHİN M. E.
Turkish Journal of Electromechanics and Energy, vol.2, no.1, pp.1-2, 2017 (Refereed Journals of Other Institutions)
- XIV. **Introducing "Turkish Journal of Electromechanics & Energy"**
CORA Ö. N. , ŞAHİN M. E.
Turkish Journal of Electromechanics and Energy, vol.1, no.1, pp.1-4, 2016 (Refereed Journals of Other Institutions)
- XV. **Physical Structure, Electrical Design, Mathematical Modeling and Simulation of Solar Cells and Modules**
ŞAHİN M. E. , OKUMUŞ H. İ.
Turkish Journal of Electromechanics and Energy, vol.1, no.1, pp.5-12, 2016 (Refereed Journals of Other Institutions)
- XVI. **KTÜ TEMİZ ENERJİ EVİ**
ŞAHİN M. E.
EMO ŞUBE BULTENİ, vol.2, no.2, pp.30-34, 2015 (National Non-Refereed Journal)
- XVII. **Electromagnetic pollution measurement in the RTE university campus area**
Dilek B., AS N., ŞAHİN M. E. , KARAN Y.
Global Journal on Advances Pure and Applied Sciences, no.3, pp.65-72, 2014 (Refereed Journals of Other Institutions)
- XVIII. **KTÜ Temiz Enerji Evinin Kurulması ve Temel Uygulamalar**
ŞAHİN M. E. , OKUMUS H. İ.
Faal Enerji Dergisi, vol.1, no.15, pp.34-36, 2013 (National Non-Refereed Journal)
- XIX. **Güneş Pili Modülünün Matlab/Simulink ile Modellenmesi ve Simülasyonu (Modeling and Simulation of Solar Cell Module in Matlab/Simulink)**
ŞAHİN M. E. , OKUMUS H. İ.
EMO Bilimsel Dergi (The Journal of Electrical, Electronics, Computer and Biomedical Engineering), vol.3, no.5, pp.17-25, 2013 (Refereed Journals of Other Institutions)
- XX. **Modeling and Simulation of Solar Cell Module in Matlab Simulink**
ŞAHİN M. E. , OKUMUŞ H. İ.
EMO BİLİMSEL DERGİSİ, vol.3, no.5, pp.17-25, 2013 (Other Refereed National Journals)
- XXI. **Selective Radiation Measurement for Safety Evaluation on Base Stations**
ŞAHİN M. E. , KARAN Y., AS N.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.26, no.1, pp.73-83, 2013 (International Refereed University Journal)
- XXII. **A novel filter compensation scheme for single phase-self-excited induction generator micro wind generation system**
ŞAHİN M. E. , OKUMUŞ H. İ. , SHARAF A. M.

SCIENTIFIC RESEARCH AND ESSAYS, vol.7, no.34, pp.3058-3072, 2012 (Refereed Journals of Other Institutions)

- XXIII. **Dalga Enerjisi ve Deniz Dalgalarından Elektrik Enerjisi Üretim Yöntemleri**
ŞAHİN M. E. , OKUMUS H. I. , AKPINAR A. S.
FAAL ENERJİ DERGİSİ, vol.1, no.2, pp.94-95, 2011 (National Non-Refereed Journal)
- XXIV. **Dalga Enerjisi ve Ekonomisi**
ŞAHİN M. E. , AKPINAR A. S. , OKUMUS H. I.
EMO Trabzon Şube Bülteni, vol.1, no.2011, pp.26-28, 2011 (National Non-Refereed Journal)
- XXV. **Seviye Sensörleri Ve Uygulamaları**
ŞAHİN M. E.
OTOMASYON DERGİSİ, vol.1, no.6, pp.1, 2010 (National Non-Refereed Journal)

Books & Book Chapters

- I. **Devre Analizi ve Ölçme Bilgisi Laboratuvarı DeneYleri (Bilgisayar Destekli ve Konu Anlatımlı)**
ŞAHİN M. E.
Nobel Akademik Yayıncılık, Ankara, 2020
- II. **DEVRE ANALİZİ VE ÖLÇME BİLGİSİ LABORATUVARI DENEYLERİ (Bilgisayar Destekli ve Konu Anlatımlı)**
ŞAHİN M. E.
Nobel Akademik Yayıncılık, Ankara, 2018
- III. **ELEKTRONİK LABORATUVARI DENEYLERİ -Bilgisayar Destekli ve Konu Anlatımlı**
ŞAHİN M. E.
Nobel Akademik Yayıncılık, Ankara, 2018
- IV. **Devre Analizi ve Ölçme Bilgisi Laboratuvarı DeneYleri (Bilgisayar Destekli Konu Anlatımlı)**
ŞAHİN M. E.
Nobel Yayın Dağıtım, Ankara, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Güneş Pili ile Çalışan Sera Otomasyonu**
Yılmaz C., Sefer E., Şahin M. E.
EEMGG"2021, Trabzon, Turkey, 24 - 25 September 2021, pp.1-7
- II. **AN EFFICIENT PV POWERED BATTERY CHARGING DC GREEN PLUG SCHEME**
Şahin M. E. , Sharaf A.
CYSENI 2021, Kaunas, Lithuania, 24 - 28 May 2021, pp.1-10
- III. **INVESTIGATION OF VERTICAL AXIS WIND TURBINES AND THEIR COMPONENTS DESIGN**
Boztaş A., Demirbaş O., Şahin M. E.
5 International Anatolian Energy Symposium, Trabzon, Turkey, 24 - 25 March 2021, vol.1, no.1, pp.485-494
- IV. **Açık Deniz (Offshore) Rüzgâr Sistemleri ve Danimarka Örneğinin İncelenmesi**
ŞAHİN M. E.
YEKSEM_2019, Antalya, Turkey, 12 - 14 December 2019
- V. **Comparison of IG and DFIG for Wind Power Generation Systems**
ŞAHİN M. E.
3rd International Conference on AdvancedEngineering Technologies, Bayburt, Turkey, 19 - 21 September 2019
- VI. **A Photovoltaic Powered Electrolysis Converter System with Maximum Power Point Tracking Control**
ŞAHİN M. E.
International Conference on Chemical Energy Semiconductor Photochemistry, Trabzon, Turkey, 4 - 06 September 2019
- VII. **A hybrid PV-Battery/Supercapacitor System and a Basic Active Power Control Proposal in**

MATLAB/Simulink

ŞAHİN M. E. , BLAABJERG F.

International Conference on Chemical Energy Semiconductor Photochemistry, Trabzon, Turkey, 4 - 06 September 2019

- VIII. **INDUCTANCE SELECTION CRITERIA AND DESIGN STEPS FOR POWER ELECTRONICS APPLICATIONS**
ŞAHİN M. E. , OKUMUŞ H. İ.
CYSENI 2019, Kaunas, Lithuania, 23 - 24 May 2019
- IX. **PREDESIGN SIMULATION OF SUPERCAPACITORS BASED ON SIMPLIFIED EQUIVALENT CIRCUIT MODEL**
ŞAHİN M. E. , BLAABJERG F., SANGWONGWANICH A.
CYSENI 2019, Kaunas, Lithuania, 23 - 24 May 2019
- X. **Experimental Setup for Analyzing Electromagnetic Radiation Effect on Bees and Bee Products**
Karan Y., Dizman S., Sayı B. C. , As N., Şahin M. E.
1. International Symposium on Multidisciplinary Studies on Innovative Technologies, Tokat, Turkey, 2 - 04 November 2017
- XI. **Experimental Setup for Analyzing Electromagnetic Radiation Effect on Bees and Bee Products**
KARAN Y., DİZMAN S., Sayı B. C. , AS N., ŞAHİN M. E.
International Symposium on Multidisciplinary Studies and Innovative Technologies, Tokat, Turkey, 2 - 04 November 2017, pp.71
- XII. **Single Input Multiple Output DC/DC Buck Converter for Electric Vehicles**
Aden İ. A. , KAHVECİ H., ŞAHİN M. E.
International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017
- XIII. **Bayburt City Beşpinar Town Electromagnetic Pollution Measurements**
Sayı B. c. , AS N., KARAN Y., DİZMAN S., ŞAHİN M. E.
II. International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017
- XIV. **Bayburt Demirözü Beşpinar Beldesi Elektromanyetik Kirlilik Ölçümleri**
Sayı B. C. , AS N., KARAN Y., DİZMAN S., ŞAHİN M. E.
International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1018
- XV. **A Novel Efficient PV - Battery Powered LED Lighting Scheme**
Sahin M. E. , SHARAF A. M.
5th International Istanbul Smart Grid and Cities Congress and Fair (ICSG), İstanbul, Turkey, 19 - 21 April 2017, pp.90-94
- XVI. **Design of a Laboratory Unit Air-Conditioning System with Matlab/Simulink Software**
KOÇYİĞİT n., ŞAHİN M. E.
ICCESEN 2016, Antalya, Turkey, 19 - 24 November 2016
- XVII. **The Design Steps of a Hybrid Renewable Energy System**
ŞAHİN M. E. , OKUMUŞ H. İ.
ICCESEN 2016, Antalya, Turkey, 19 - 24 October 2016
- XVIII. **Investigation of GSM LTE and Wi Fi Electromagnetic Radiation in Dwellings**
KARAN Y., AS N., ŞAHİN M. E.
International Conference Computational Experimental Science and Engineering(ICCESEN), Antalya, Turkey, 19 - 24 October 2016
- XIX. **Sliding mode control of PV powered DC/DC Buck-Boost converter with digital signal processor**
ŞAHİN M. E. , OKUMUŞ H. İ. , KAHVECİ H.
17th European Conference on Power Electronics and Applications (EPE ECCE-Europe), Geneva, Switzerland, 8 - 10 September 2015
- XX. **Design of Wave Energy Converter System with Linear Generator**
ŞAHİN M. E. , ÖZDİNÇ I.
ICCESEN 2014, Antalya, Turkey, 25 - 29 October 2014, vol.1, no.1, pp.224
- XXI. **Comparison of Three Different Controllers for PV Powered Buck-Boost DC-DC Converter**

ŞAHİN M. E. , OKUMUS H. I.

2nd International Conference on Computational & Social Sciences (ICCSS-14), Rize, Turkey, 26 - 28 August 2014, vol.1, pp.1-11

- XXII. **Yüksek Kazançlı Kablosuz Ağ Adaptörlerinde Elektromanyetik Radyasyon Analizi**
KARAN Y., AS N., ŞAHİN M. E.
TFD 31. Uluslararası Fizik Kongresi, Muğla, Turkey, 21 - 24 July 2014, pp.79
- XXIII. **Electromagnetic Pollution Measurement in the RTE University Campus Area**
Dilek B., AS N., ŞAHİN M. E. , KARAN Y.
2nd Global Conference on Environmental Studies, Roma, Italy, 10 - 12 April 2014, pp.53
- XXIV. **RTE Üniversitesi Merkez Kampüs Güney Hattı Boyunca Elektromanyetik Kirlilik Ölçümü**
Dilek B., AS N., ŞAHİN M. E.
EMANET 2013, İstanbul, Turkey, 8 - 09 November 2013, vol.1, pp.1-6
- XXV. **RTE Üniversitesi Kampüs Alanında Elektromanyetik Kirlilik Ölçümü**
Dilek B., AS N., ŞAHİN M. E.
GEFİK'13, İzmir, Turkey, 8 - 10 July 2013, vol.1, pp.1
- XXVI. **Small Signal Analyses and Hardware Implementation of a Buck-Boost Converter for Renewable Energy Applications**
ŞAHİN M. E. , OKUMUŞ H. İ.
International Conference on Renewable Energy Research and Applications (ICRERA), Madrid, Spain, 20 - 23 October 2013, pp.330-335
- XXVII. **A Sliding Mode and Fuzzy Logic Controlled PV Powered Buck-Boost DC-DC Converter**
ŞAHİN M. E. , OKUMUS H. I.
9TH International Conference on Electronics and Computation (ICECCO 2012), Ankara, Turkey, 1 - 03 November 2012, vol.1, pp.195-198
- XXVIII. **A Fuzzy Logic Controlled PV Powered Buck-Boost DC-DC Converter for Battery-Load System**
ŞAHİN M. E. , OKUMUS H. I.
International Symposium on INnovations in Intelligent SysTems and Applications IEEE Conference, Trabzon, Turkey, 2 - 04 July 2012, vol.1, pp.1-5
- XXIX. **A Novel Photovoltaic PV-Powered Boost Battery Charging FACTS Scheme for Electric Vehicles**
SHARAF A. M. , ŞAHİN M. E. , OKUMUS H. I.
3rd International Conference on Nuclear & Renewable Energy Resources, İstanbul, Turkey, 20 - 23 May 2012, vol.1, pp.1-6
- XXX. **A Novel Photovoltaic PV-Powered Battery Charging Scheme for Electric Vehicles**
SHARAF A. M. , ŞAHİN M. E.
ICEAS 2011 IEEE Conference, Odisha, India, 28 - 30 December 2011, vol.1, pp.1-5
- XXXI. **Spectrum analyzer measurement technique for safety evaluation on wireless communication systems**
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- XXXII. **Fuzzy Logic Controlled Buck-Boost DC-DC Converter for Solar Energy-Battery System**
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ŞAHİN M. E. , OKUMUS H. I.
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ŞAHİN M. E. , NEVRUZOĞLU V.

2nd International Conference on Nuclear & Renewable Energy Resources, Ankara, Turkey, 4 - 07 July 2010, vol.1, pp.310-314

XXXVI. Design and Analysis of Fuzzy Controller for a Single Holding Tank

ŞAHİN M. E. , ALTAŞ İ. H. , OKUMUS H. I.

International Symposium on INnovations in Intelligent SysTems and Applications, Kayseri, Turkey, 21 - 24 June 2010, vol.1, pp.250-254

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ŞAHİN M. E. , NEVRUZOĞLU V.

NURER, 1 July - 05 January 2010

XXXVIII. Rize İli için Tasarlanmış Bilgisayar Kontrollü Güneş Evi Modeli

ŞAHİN M. E. , NEVRUZOĞLU V., ŞENYURT Ö.

Ulusal Hidrojen Enerjisi Kongresi ve Sergisi(Uluslararası Katılımlı), Kocaeli, Turkey, 15 - 16 October 2009, vol.1, pp.273-278

XXXIX. Fuzzy Logic Controlled Synchronous Buck DC DC Converter Ior Solar Energy Hydrogen Systems

ŞAHİN M. E. , OKUMUŞ H. İ.

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Supported Projects

AS N., İNCE B. E. , ŞAHİN M. E. , KARAN Y., DİZMAN S., SAYI B. C. , KUVANCI A., ÖZTÜRK H., CİNBIRTOĞLU Ş., AYDIN E., Project Supported by Higher Education Institutions, İyonize Olmayan Elektromanyetik Radyasyonun Bal Arıları ve Bal Üretimi Üzerindeki Etkilerinin İncelenmesi, 2017 - 2019

AS N., DİZMAN S., KARAN Y., ŞAHİN M. E. , Dilek B., Project Supported by Higher Education Institutions, Çevrede Bulunan İyonize Olamayan Elektromanyetik Alan (0-300 GHz) Kirliliğinin ve Elektromanyetik Alanların Vücut Yüzeyinde Oluşturduğu Isıl Değişimlerin İncelenmesi, 2013 - 2016

TUBITAK Project, Karma (Fotovoltaik/Rüzgâr) Enerji Sistemi İçin Bulanık Kayan Kip (Fuzzy-Sliding Mode) Denetimli Paralel Bağlı Azaltan-Artıran (Buck-Boost) Çevirici Tasarımı Ve Güç Analizinin Yapılması, 2012 - 2013

KOÇYİĞİT N., ŞAHİN M. E. , Project Supported by Higher Education Institutions, Bilgisayar Kontrollü Elektronik İklimlendirme Sistemi Yapımı, 2010 - 2012

Activities in Scientific Journals

International Journal of Energy and Environmental Science, Committee Member, 2016 - Continues

Turkish Journal of Electrical Engineering & Computer Sciences, Editor, 2015 - Continues

Turkish Journal of Electromechanics and Energy, First Editor, 2014 - Continues

Memberships / Tasks in Scientific Organizations

Elektrik Mühendisleri Odası, Member, 2002 - Continues

Scientific Refereeing

International Journal of Energy Research, SCI Journal, September 2016

Journal of Circuits, Systems, and Computer(sürekli), National Scientific Refreed Journal, June 2015
Gazi University Journal of Science, Other Indexed Journal, April 2015
Gazi University Journal of Science Part A:Engineering and Innovation, Other Indexed Journal, April 2015
February 2015
Turkish Journal of Electrical Engineering & Computer Sciences(Sürekli), SCI Journal, January 2015
International Journal of Hydrogen Energy,, SCI Journal, July 2014
British Journal of Applied Science & Technology, Other Indexed Journal, June 2013
Scientific Research and Essays, SCI Journal, May 2013
EMO Bilimsel Dergisi, Other Indexed Journal, May 2013
Instrumentation Science & Technology , Taylor & Francis,, SCI Journal, February 2013
Electric Power Components and Systems, Taylor & Francis, SCI Journal, January 2012

Scientific Research / Working Group Memberships

Recep Tayyip Erdoğan Üniversitesi Elektromanyetik Uygulama ve Araştırma Merkezi, RECEP TAYYİP ERDOĞAN
ÜNİVERSİTESİ, Turkey, <http://remam.idari.erdogan.edu.tr/tr/>, 2016 - Continues

Edit Congress and Symposium Activities

IEEE 7th CORPE Symposium, Attendee, Aalborg, Denmark, 2019
IEEE Workshop on Representations of Power Electronics for Grid Dynamic Studies, Attendee, Aalborg, Denmark, 2018

Citations

Total Citations (WOS):55
h-index (WOS):5

Scholarships

2219 Doktora sonrası araştırma, TÜBİTAK, 2018 - 2019
1002 Bursu, TÜBİTAK, 2012 - 2013

Awards

ŞAHİN M. E. , Yayın Teşvik Ödülü, RTE Üniversitesi, May 2019
ŞAHİN M. E. , Yayın Teşvik Ödülü, RTE Üniversitesi, April 2018
ŞAHİN M. E. , Yayın teşvik ödülü, TÜBİTAK, April 2017
Şahin M. E. , Yayın Teşvik Ödülü, Tübitak, December 2015
ŞAHİN M. E. , Tut elimden adlı proje yarışması ödülü, TTSO-KTU, December 2013

Visual Activities

ŞAHİN M. E. , Radio Program, 2020 - 2020

Non Academic Experience

Business Establishment Private, Denetim Şirketi
Other Public Institution, Meb