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Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği A.B.D., Turkey 2012 - 2017

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği A.B.D., Turkey 2009 - 2012

Undergraduate, Cukurova University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2004 - 2009

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Other, Sanayide Etüt-Proje Sertifikası Eğitimi, TMMOB Makine Mühendisleri Odası Uygulamalı Eğitim Merkezi, Kocaeli, Türkiye, 2012

Other, Endüstriyel Elektrik Eğitimi, Çukurova Üniversitesi, 2010

Other, SCADA Eğitimi, Çukurova Üniversitesi, 2009

Other, Allen-Bradley SLC500 PLC Eğitimi, Çukurova Üniversitesi, 2009

Dissertations

Postgraduate, Modeling and Analysis of Multiconverter Unified Power Quality Conditioner, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği Anabilim Dalı, 2012

Research Areas

Electrical and Electronics Engineering, Energy, Power System Analysis, Electric Power Transmission, Distribution and Protection, Power Electronics, Power Converters, Power Quality, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Cukurova University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2013

- Continues

Research Assistant, Osmaniye Korkut Ata University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2010 - 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Flow characteristics comparison of PIV and numerical prediction results for an unmanned underwater vehicle positioned close to the free surface**
Kilavuz A., Ozgoren M., Kavurmacioglu L. A., Durhasan T., Sarigiguzel F., Sahin B., Akilli H., Sekeroglu E., Yaniktepe B.
APPLIED OCEAN RESEARCH, vol.129, 2022 (SCI-Expanded)
- II. **Influence of free-surface on wake flow characteristics of a torpedo-like geometry**
Kilavuz A., Durhasan T., Ozgoren M., Sarigiguzel F., Sahin B., Kavurmacioglu L. A., Akilli H., Sekeroglu E., Yaniktepe B.
JOURNAL OF MARINE SCIENCE AND TECHNOLOGY, vol.27, no.3, pp.1130-1147, 2022 (SCI-Expanded)
- III. **Experimental investigation of free-surface effects on flow characteristics of a torpedo-like geometry having a cambered nose**
Sarigiguzel F., Kilavuz A., Ozgoren M., Durhasan T., Sahin B., Kavurmacioglu L. A., Akilli H., Sekeroglu E., Yaniktepe B.
OCEAN ENGINEERING, vol.253, 2022 (SCI-Expanded)
- IV. **The impacts of the free-surface and angle of attack on the flow structures around a torpedo-like geometry**
Kilavuz A., Sarigiguzel F., Ozgoren M., Durhasan T., Sahin B., Kavurmacioglu L. A., Akilli H., Sekeroglu E., Yaniktepe B.
EUROPEAN JOURNAL OF MECHANICS B-FLUIDS, vol.92, pp.226-243, 2022 (SCI-Expanded)
- V. **Implementation of a Novel Hybrid UPQC Topology Endowed With an Isolated Bidirectional DC-DC Converter at DC link**
KÖROĞLU T., TAN A., Savrun M. M., Cuma M. U., BAYINDIR K. Ç., Tumay M.
IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN POWER ELECTRONICS, vol.8, no.3, pp.2733-2746, 2020 (SCI-Expanded)
- VI. **Performance analysis of multiconverter unified power quality conditioner with an EPLL-based controller at medium voltage level**
KOROGLU T., BAYINDIR K. Ç., TUMAY M.
INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS, vol.26, no.12, pp.2774-2786, 2016 (SCI-Expanded)
- VII. **A comprehensive review on estimation strategies used in hybrid and battery electric vehicles**
CUMA M. U., KÖROĞLU T.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.42, pp.517-531, 2015 (SCI-Expanded)
- VIII. **Current status of wind energy and wind energy policy in Turkey**
Yaniktepe B., Savrun M. M., Koroglu T.
ENERGY CONVERSION AND MANAGEMENT, vol.72, pp.103-110, 2013 (SCI-Expanded)
- IX. **Investigation of wind characteristics and wind energy potential in Osmaniye, Turkey**
Yaniktepe B., Koroglu T., Savrun M. M.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.21, pp.703-711, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Otonom araçlarda hareket planlaması**
NENNİOĞLU A. K., KÖROĞLU T.
Artıbilim: Adana Bilim ve Teknoloji Üniversitesi Fen Bilimleri Dergisi, vol.1, no.2, pp.20-29, 2018 (Peer-Reviewed Journal)
- II. **Prediction of Ultimate Tensile Strength of Prestressed Concrete Strand using Artificial Neural Network Model**

CUMA M. U., ÖZEL H., KÖROĞLU T.

Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.33, no.3, pp.187-196, 2018 (Peer-Reviewed Journal)

III. **DSP controlled voltage disturbance generator**

Savrun M. M., TAN A., KOROGLU T., Cuma M. U., Bayindir K. Ç., Tumay M.

JOURNAL OF ELECTRICAL SYSTEMS, vol.14, no.1, pp.174-187, 2018 (ESCI)

IV. **1P3S HIGH FREQUENCY TRANSFORMER BASED DUAL-ACTIVE BRIDGE DC-DC CONVERTER**

SAVRUN M. M., KÖROĞLU T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

International Journal of Energy Applications and Technologies, vol.4, no.4, pp.174-181, 2017 (Peer-Reviewed Journal)

V. **Comparison of Different Phase-Shift Control Methods at Isolated Bidirectional DC-DC Converter**

KAYAALP R. İ., DEMİRDELEN T., KÖROĞLU T., CUMA M. U., Bayındır K. Ç., TÜMAY M.

INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS, ELECTRONICS AND COMPUTERS, vol.4, no.3, pp.68-73, 2016 (Peer-Reviewed Journal)

VI. **Carcillo JA; Turkish Secondary HLH/MAS Critical Care Study Group Hyperferritinemia in the critically ill child with secondary HLH/sepsis/MODS/MAS: what is the treatment?**

Karapınar B., YILDIZDAŞ R. D., Demirkol D., Kendirli T., Bayrakçı B., Köroğlu T., Dursun O., Erkek N., Gedik H., Çıtak A., et al.

Crit Care, vol.19, no.16, 2012 (Peer-Reviewed Journal)

VII. **Güneş Paneli Sistemlerinin Tasarımı**

KÖROĞLU T., TEKE A., Bayındır K. Ç., TÜMAY M.

Elektrik Mühendisliği Dergisi, no.439, pp.98-104, 2010 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **A New Balancing Algorithm for Parallel Connected Battery Packs Used in Electric Vehicles**

CUMA M. U., ERDOĞAN B., Onur B., KÖROĞLU T., SAVRUN M. M., TÜMAY M.

5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Alanya, Antalya, Turkey, 21 - 23 October 2020

II. **A Fast Simulation Model For Large Scale Battery Packs Used In Heavy Electric Vehicles**

ERDOĞAN B., SAVRUN M. M., KÖROĞLU T., CUMA M. U., TÜMAY M.

3rd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT'19), Ankara, Turkey, 11 - 13 October 2019

III. **Minimization of Battery Pack Imbalance of Electric Vehicles Using Optimized Balancing Parameters**

SAVRUN M. M., KÖROĞLU T., ÜNAL E., ONUR B., CUMA M. U.

Electric Vehicles International Conference (EV'2019), Bucharest, Romania, 3 - 04 October 2019

IV. **Residential Grid Connected Solar PV System Equipped With Battery Storage Units**

SAVRUN M. M., KÖROĞLU T., YİRİK E., CUMA M. U.

International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech'18), 22 - 23 November 2018, pp.2570-2577

V. **1P3S High Frequency Transformer Based Dual-Active Bridge DC-DC Converter**

SAVRUN M. M., KÖROĞLU T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

IV. International Multidisciplinary Congress of Eurasia: Natural Sciences, Engineering and Architecture, IMCOFE'17, Roma, Italy, 23 - 25 August 2017, pp.488

VI. **A Study on Design Considerations of Isolated Bi-Directional Dual Active Bridge DC-DC Converter**

KÖROĞLU T., SAVRUN M. M., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

IV. International Multidisciplinary Congress of Eurasia: Natural Sciences, Engineering and Architecture, IMCOFE'17, Roma, Italy, 23 - 25 August 2017, vol.3, pp.267-273

VII. **Interline hybrid unified power quality conditioner**

SAVRUN M. M., KÖROĞLU T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

18th European Conference on Power Electronics and Applications, EPE 2016 ECCE Europe, Karlsruhe, Germany, 5 - 09 September 2016

- VIII. **Interline Hybrid Unified Power Quality Conditioner**
SAVRUN M. M., KÖROĞLU T., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.
18th European Conference on Power Electronics and Applications (EPE 2016), Karlsruhe, Germany, 5 - 09 September 2016
- IX. **Interline Hybrid Unified Power Quality Conditioner**
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18th European Conference on Power Electronics and Applications (EPE 2016), Karlsruhe, Germany, 5 - 09 September 2016
- X. **Design and Implementation of Full Bridge Bidirectional Isolated DC-DC Converter for High Power Applications**
KÖROĞLU T., SAVRUN M. M., TAN A., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.
18th European Conference on Power Electronics and Applications (EPE), Germany, 5 - 09 September 2016
- XI. **Comparison of Different Phase-Shift Control Methods at Isolated Bidirectional DC-DC Converter**
KAYAALP R. İ., DEMİRDELEN T., KÖROĞLU T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.
International Conference on Advanced Technology and Sciences, Antalya, Turkey, 4 - 07 August 2015, pp.273-279
- XII. **A Novel Low Cost Sag/Swell Generator**
İNCİ M., DEMİRDELEN T., TAN A., KÖROĞLU T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.
IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems - PEDG 2015, Aachen, Germany, 22 - 25 June 2015, pp.239-242
- XIII. **Performance Evaluation of a New Hybrid Unified Power Quality Conditioner (HUPQC)**
KÖROĞLU T., CUMA M. U., TAN A., İNCİ M., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.
The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG?2015), Aachen, Germany, 22 - 25 June 2015, pp.1-6
- XIV. **Performance Evaluation of a New Hybrid Unified Power Quality Conditioner (HUPQC)**
KÖROĞLU T., CUMA M. U., TAN A., İNCİ M., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.
The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG?2015), Aachen, Germany, 22 - 25 June 2015, pp.1-6
- XV. **Performance Investigation of Shunt Hybrid Active Power Filter with A Synchronous Reference Frame Based Controller**
TAN A., KÖROĞLU T., DEMİRDELEN T., İNCİ M., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.
IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems, 2015, Aachen, Germany, 22 - 25 June 2015, pp.391-398
- XVI. **Performance Investigation of Shunt Hybrid Active Power Filter with a Synchronous Reference Frame Based Controller**
TAN A., KÖROĞLU T., DEMİRDELEN T., İNCİ M., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.
The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG?2015), Aachen, Germany, 22 - 25 June 2015, pp.1-8
- XVII. **Performance Investigation of Shunt Hybrid Active Power Filter with a Synchronous Reference Frame Based Controller**
TAN A., KÖROĞLU T., DEMİRDELEN T., İNCİ M., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.
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- XVIII. **Performance Investigation of Shunt Hybrid Active Power Filter with A Synchronous Reference Frame Based Controller**
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- XIX. **Performance Investigation of Shunt Hybrid Active Power Filter with A Synchronous Reference Frame Based Controller**

TAN A., KÖROĞLU T., DEMİRDELEN T., İNCİ M., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems, 2015, Aachen, Germany, 22 - 25 June 2015, pp.391-398

XX. A Novel Low Cost Sag/Swell Generator

İNCİ M., DEMİRDELEN T., TAN A., KÖROĞLU T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG'2015), Aachen, Germany, 22 - 25 June 2015, pp.1-4

XXI. Performance Evaluation of a New Hybrid Unified Power Quality Conditioner (HUPQC)

KÖROĞLU T., CUMA M. U., TAN A., İNCİ M., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.

IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems - PEDG 2015, Aachen, Germany, 22 - 25 June 2015, pp.111-116

XXII. A Novel Low Cost Sag/Swell Generator

İNCİ M., DEMİRDELEN T., TAN A., KÖROĞLU T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG'2015), Aachen, Germany, 22 - 25 June 2015, pp.1-4

XXIII. Performance Evaluation of a New Hybrid Unified Power Quality Conditioner (HUPQC)

KÖROĞLU T., CUMA M. U., TAN A., İNCİ M., DEMİRDELEN T., BAYINDIR K. Ç., TÜMAY M.

IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), Aachen, Germany, 22 - 25 June 2015, pp.111-116

XXIV. A Novel Low Cost Sag/Swell Generator

İnci M., DEMİRDELEN T., TAN A., KÖROĞLU T., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), Aachen, Germany, 22 - 25 June 2015, pp.239-242

XXV. PERFORMANCE INVESTIGATION OF SHUNT HYBRID ACTIVE POWER FILTER WITH A SYNCHRONOUS REFERENCE FRAME BASED CONTROLLER

TAN A., KÖROĞLU T., DEMİRDELEN T., İnci M., CUMA M. U., BAYINDIR K. Ç., TÜMAY M.

IEEE 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), Aachen, Germany, 22 - 25 June 2015, pp.391-398

XXVI. Modeling and analysis of a nonlinear adaptive filter control for interline unified power quality conditioner

Köroğlu T., İnci M., Çağatay Bayındır K., TÜMAY M.

2013 4th International Conference on Power Engineering, Energy and Electrical Drives, POWERENG 2013, İstanbul, Turkey, 13 - 17 May 2013, pp.603-608

XXVII. Şebeke Gerilim Değişimlerini Sezme Amaçlı Kontrol Metodlarının İncelenmesi ve Performanslarının Değerlendirilmesi

İNCİ M., KÖROĞLU T., TÜMAY M., BAYINDIR K. Ç.

V.ENERJİ VERİMLİLİĞİ VE KALİTESİ SEMPOZYUMU, Kocaeli, Turkey, 23 - 24 May 2013, pp.180-184

XXVIII. Şebekeye Bağlı Sistemler İçin Üç Faz ve Tek Faz PLL'lerin Performans Değerlendirmesi

DEMİRDELEN T., TAN A., İNCİ M., KÖROĞLU T., BÜYÜK M., TERCİYANLI A., BAYINDIR K. Ç., TÜMAY M.

5. Enerji Verimliliği ve Kalitesi Sempozyumu - EVK 2013, Kocaeli, Turkey, 23 - 24 May 2013, pp.5-9

XXIX. Şebekeye Bağlı Sistemler İçin Üç Faz ve Tek Faz PLL'lerin Performans Değerlendirmesi

DEMİRDELEN T., TAN A., İNCİ M., KÖROĞLU T., BÜYÜK M., TERCİYANLI A., BAYINDIR K. Ç., TÜMAY M.

5. Enerji Verimliliği ve Kalitesi Sempozyumu - EVK 2013, Kocaeli, Turkey, 23 - 24 May 2013, pp.5-9

XXX. Şebekeye Bağlı Sistemler için Üç Faz ve Tek Faz PLL'lerin Performans Değerlendirmesi

DEMİRDELEN T., TAN A., İNCİ M., KÖROĞLU T., Büyük M., Terciyanlı A., Bayındır K. Ç., TÜMAY M.

5. Enerji Verimliliği Ve Kalitesi Sempozyumu 2013, Kocaeli, Turkey, 23 - 24 May 2013, pp.5-9

XXXI. Modeling and Analysis of a Nonlinear Adaptive Filter Control for Interline Unified Power Quality Conditioner

KÖROĞLU T., İNCİ M., Bayındır K. Ç., TÜMAY M.

IV. International Conference on Power Engineering, Energy and Electrical Drives (POWERENG'2013), İstanbul, Turkey, 13 - 17 May 2013, pp.603-608

- XXXII. **Current status and policy of wind energy in Turkey**
Yanıktepe B., SAVRUN M. M., KÖROĞLU T.
Nükleer ve Yenilenebilir Enerji Kaynakları Konferansı NURER 2012, İstanbul, Turkey, 21 - 23 May 2012, pp.1-7
- XXXIII. **Current Status and Policy of Wind Energy in TURKEY**
Yanıktepe B., SAVRUN M. M., KÖROĞLU T.
Nükleer ve Yenilenebilir Enerji Kaynakları Konferansı NURER 2012, İstanbul, Turkey, 20 - 23 May 2012, pp.1-7
- XXXIV. **Çocuk Acil ve Yoğun Bakımlarda Kardiyopulmoner Arrest: Çok Merkezli Bir Çalışma.**
Çıtak A., Anıl A., Arslanköylü A., Bayrakçı B., Demirkol D., Erkek N., Paksu S., Kendirli T., Köroğlu T., Kutlu N., et al.
IX. Ulusal çocuk acil tıp ve yoğun bakım kongresi, Ankara, Turkey, 01 January 2012
- XXXV. **Çocuk Yoğun Bakım Hastalarında İntraabdominal Hipertansiyon İnsidansı**
Anıl A., Arslanköylü A., Bayrakçı B., Akyıldız B., YILDIZDAŞ R. D., Aslıhoğlu N., Erkek N., ÖZGÜR HOROZ Ö., Paksu S., Kendirli T., et al.
IX. Ulusal çocuk acil tıp ve yoğun bakım kongresi, Ankara, Turkey, 01 January 2012
- XXXVI. **Rüzgar-Güneş Hibrid Güç Sistemi Osmaniye Korkut Ata Üniversitesi Uygulama Örneği**
Yanıktepe B., Özalp C., Savrun M. M., KÖROĞLU T., Cebeci Ç.
6. Uluslararası İleri Teknolojiler Sempozyumu (IATS'11), Elazığ, Turkey, 16 - 18 May 2011
- XXXVII. **An assessment of Wind Power Potential in Osmaniye, Turkey**
Yanıktepe B., Özalp C., Kaşka Ö., KÖROĞLU T.
6. Uluslararası İleri Teknolojiler Sempozyumu (IATS'11), Elazığ, Turkey, 16 - 18 May 2011
- XXXVIII. **Özel Güç Cihazlarının Çoklu Fiderli Sistemlerdeki Uygulamalarının İncelenmesi**
KÖROĞLU T., TAN A., BAYINDIR K. Ç.
4. Enerji Verimliliği ve Kalitesi Sempozyumu - EVK 2011, Kocaeli, Turkey, 12 - 13 May 2011, pp.188-192

Supported Projects

CUMA M. U., KÖROĞLU T., Project Supported by Higher Education Institutions, Yeni ve Hızlı Gerilim ÇukuruTepesi Tespit Eden Kontrolcülü Dinamik Gerilim İyileştiricinin Güç Devresi Tasarımı, 2015 - 2016

CUMA M. U., KÖROĞLU T., SAVRUN M. M., Project Supported by Higher Education Institutions, DA-DA Dönüştürücülü Melez Birleştirilmiş Güç Kalitesi Düzenleyicisinin Tasarımı ve Gerçekleştirilmesi, 2015 - 2016

KÖROĞLU T., TUBITAK Project, Gerilim Kaynaklı Evirgeç Tabanlı Hibrid Aktif Güç Filtresi Tasarımı ve Geliştirilmesi, 2012 - 2013

KÖROĞLU T., SAVRUN M. M., Project Supported by Other Official Institutions, Tarımsal Uygulamalarda Yenilenebilir Enerji Sistemlerinin Kullanılması, 2011 - 2011

SAVRUN M. M., KÖROĞLU T., Project Supported by Other Official Institutions, TR63 Bölgesinde TEKNOPARK veya TEKMER Kurulabilirliğinin Fizibilite Edilmesi, 2010 - 2010

KÖROĞLU T., Project Supported by Other Official Institutions, Endüstriyel Otomasyon Laboratuvarı Kurularak İş Gücü Niteliğinin Geliştirilmesi Projesi, 2010 - 2010

Scientific Refereeing

European Transactions on Electrical Power, Other journals, August 2011

International Journal of Power Electronics (IJPELEC), Other journals, July 2011

Electric Power Components and Systems, SCI Journal, April 2011

Metrics

Publication: 54

Citation (WoS): 282

Citation (Scopus): 323

H-Index (WoS): 5

H-Index (Scopus): 4

Congress and Symposium Activities

18th European Conference on Power Electronics and Applications (EPE 2016), Attendee, Karlsruhe, Germany, 2016

The 6th International Symposium on Power Electronics for Distributed Generation Systems (PEDG2015), Attendee, Aachen, Germany, 2015

IV. International Conference on Power Engineering, Energy and Electrical Drives, Attendee, İstanbul, Turkey, 2013

4. Enerji Verimliliği ve Kalitesi Sempozyumu (EVK2011), Attendee, Kocaeli, Turkey, 2011