

Prof. EYUP AKPINAR

Personal Information

Office Phone: [+90 232 301 7163](tel:+902323017163)

Email: eyup.akpinar@deu.edu.tr

Web: <https://avesis.deu.edu.tr/eyup.akpinar>

Address: Elektrik ve Elektronik Mühendisliği Kaynaklar Kampusü Buca İzmir

International Researcher IDs

ORCID: 0000-0002-8886-174X

Publons / Web Of Science ResearcherID: P-8547-2019

ScopusID: 57211027414

Yoksis Researcher ID: 13177

Biography

B.Sc : Orta Doğu Teknik Üniversitesi (ODTÜ),(Middle East Technical University (METU)),
Engineering Faculty, Electrical Engineering, 1981

M.Sc : METU, Electrical and Electronics Engineering, 1984

Ph.D : METU, Electrical and Electronics Engineering, 1991

Post Doctoral : University of New Orleans, USA, 1991-1994

Scholarship : British Council, Ph.D Thesis, University of New Castle upon Tyne, UK, 1987-1989

Lecturer, Research Assistant : METU, Electrical and Electronics Engineering, 1982-1993

Work Experience:

-Since 1997, Head of Electrical Machines Group, Dokuz Eylül University (DEÜ)

-2004- 2005, Head of Department of Electrical and Electronics Engineering, DEÜ,

-Since 2002, Prof. Dr. Dokuz Eylül Üniversitesi, İzmir.

-1996-2002, Assoc.Prof.Dr., Dokuz Eylül Üniversitesi, İzmir.

-1996, Assistant Prof.Dr. Dr., Dokuz Eylül Üniversitesi, İzmir.

-1995, Manager of Quality Lab., Leviton Mfg.Co., El Paso, USA.

-1994-1995 Sr. Electronics Engineer, Leviton Mfg.Co., El Paso, USA.

-1992-1993, Visiting Assistant Prof., University of New Orleans, USA.

-1991-1992, Post-doctoral Research Associate, University of New Orleans, USA.

-1989-1993, Lecturer, Orta Doğu Teknik Üniversitesi, Ankara.

-1982-1989, Research Assistant, Orta Doğu Teknik Üniversitesi, Ankara.

Education Information

Post Doctorate, University of New Orleans, Engineering , Electrical and Electronics Engineering, United States Of America
1991 - 1993

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Elektrik-Elektronik
Mühendisliği (Dr), Turkey 1984 - 1991

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Elektrik Ve Elektronik
Mühendisliği (YI) (Tezli), Turkey 1981 - 1984

Undergraduate, Middle East Technical University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği Bölümü,
Turkey 1976 - 1981

Dissertations

Doctorate, Transient and Steady-State Modeling and Closed -Loop Control of Slip-Energy Recovery Drive, Middle East
Technical University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), 1991

Postgraduate, Optimum Design of Multipole Synchronous Generators, Middle East Technical University, Fen Bilimleri
Enstitüsü, Elektrik Ve Elektronik Mühendisliği (YI) (Tezli), 1984

Research Areas

Electrical and Electronics Engineering, Energy, Renewable energy, Power Electronics, Electrical Machine Theory and
Design, Electric Motor Drivers, Power Apparatus (transformers,reactors,switchgear,etc.), Power Converters, Power
Quality, Engineering and Technology

Academic Titles / Tasks

Professor, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2002 - Continues
Associate Professor, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 1996 -
2002

Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 1996 -
1996

Lecturer, Middle East Technical University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 1989 - 1993

Research Assistant, Middle East Technical University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği Bölümü,
1981 - 1989

Academic and Administrative Experience

Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2017 -
Continues

Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2022 -
2022

Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2014 -
2017

Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2011 -
2014

Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2005 -
2008

Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2004 -
2005

Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2002 - 2005

Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 1999 - 2002

Courses

Power System Analysis II, Undergraduate, 2022 - 2023

Power Electronics II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001, 1999 - 2000, 1998 - 1999, 1997 - 1998, 1996 - 1997

Ph.D Research, Doctorate, 2022 - 2023

M.Sc Research, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001, 1999 - 2000, 1998 - 1999, 1997 - 1998

Ph.D Thesis, Doctorate, 2022 - 2023, 2021 - 2022

Yüksek Lisans Tez, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001, 1999 - 2000, 1998 - 1999, 1997 - 1998

Power Electronics I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001, 1999 - 2000, 1998 - 1999, 1997 - 1998, 1996 - 1997

Energy Conversion II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001, 1999 - 2000, 1998 - 1999, 1997 - 1998, 1996 - 1997

Energy Conversion I, Undergraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001

Advanced Static Power Conversion, Doctorate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Doktora Seminer, Doctorate, 2020 - 2021

Yüksek Lisans Seminer, Postgraduate, 2019 - 2020

Special Topics in Power Electronics, Doctorate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Generalized Machine Theory, Doctorate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

Power System Analysis I, Undergraduate, 2001 - 2002, 1999 - 2000

Advising Theses

AKPINAR E., Fırçasız doğru akım motoru ile gerilim kontrollü fotovoltaiik pompa sistemi, Postgraduate, T.MUGWAMBA(Student), 2020

AKPINAR E., Altı-adımlı asenkron motor sürücüsü ile orta gerilim seviyesinde rezonans aşırı gerilimlerinin analizi, Postgraduate, S.NUR(Student), 2019

AKPINAR E., Tek faz şebeke bağlantılı modüler çok seviyeli dönüştürücü analiz ve kontrolü, Postgraduate, E.BEYHAN(Student), 2019

AKPINAR E., PV system connected to grid through DC/DC buck-boost converter and DC/AC unipolar switching inverter, Postgraduate, E.DURBABA(Student), 2018

AKPINAR E., AC inverter aracılığı ile bağlı PV sistem, Postgraduate, E.DURBABA(Student), 2018

AKPINAR E., Gerilim düzenlemesi ve reaktif güç kompanzasyonunda STATCOM uygulaması, Doctorate, A.BALIKCI(Student), 2014

AKPINAR E., Tek faz yükler için anlık reaktif güç kontrolü ve modellenmesi, Postgraduate, H.HAFEZI(Student), 2013

AKPINAR E., Reaktif güç kompanzasyonu, Postgraduate, O.BALAMAN(Student), 2012

AKPINAR E., Güç kalitesi için yapay sinir ağı tabanlı aktif güç filtreleri, Doctorate, K.VARDAR(Student), 2011

AKPINAR E., Rüzgar türbinlerinin güç sistemi işletmesi üzerine etkileri, Doctorate, Ö.SALİH(Student), 2009

AKPINAR E., Enerji verimliliği uygulamalarında LED teknolojisi, Postgraduate, A.TUTAK(Student), 2009

AKPINAR E., Elektrik enerji dağıtım sistemlerinde reaktif güç kompanzasyonu, Postgraduate, A.EREN(Student), 2009

AKPINAR E., Bulanık mantık denetim tabanlı iki farklı kayma enerjisi denetiminin rüzgar türbinleri için karşılaştırılması, Postgraduate, A.BALIKÇI(Student), 2008

AKPINAR E., LCD televizyonlar için tek fazlı inverter tasarımı, Postgraduate, İ.YILMAZLAR(Student), 2007

AKPINAR E., Rüzgar türbini tarafından üretilen veya tüketilen enerjinin uzaktan okunması, Postgraduate, A.KÜRŞAD(Student), 2006

AKPINAR E., Gerilim arttırıcı DC konvertörün bulanık mantık ile kontrolü, Postgraduate, E.TOPTAŞ(Student), 2005

AKPINAR E., Alan sargılı fırçasız senkron jeneratör ve modellenmesi, Postgraduate, D.BUDAKÇI(Student), 2004

AKPINAR E., PWM çeviricili rüzgar enerjisi dönüşüm sistemi modellemesi ve simülasyonu, Doctorate, T.SÜRGEVİL(Student), 2004

AKPINAR E., Üç faz fırçasız doğru akım motoru analizi ve sürücü devresi dizaynı, Postgraduate, C.CENGİZ(Student), 2003

AKPINAR E., İki fazlı, sabit mıknatıslı, değişken ve relüktanslı motorun motor parametrelerinin sonlu elemanlar ile belirlenmesi ve motor ve sürücü performans analizlerinin dinamik simülasyonu, Doctorate, H.ÖZTURA(Student), 1998

AKPINAR E., Özürlü sandalyesindeki gürültü kaynağının tanımlanması, Postgraduate, O.GERGÖZ(Student), 1998

Akpınar E., Adım motorları kullanarak bilgisayar destekli anten kontrol ünitesi tasarımı, Postgraduate, E.TAŞCI(Student), 1998

AKPINAR E., Sayısal kontrollü DC motorların optimal kontrolü, Doctorate, F.GÜRBÜZ(Student), 1997

AKPINAR E., 3-faz DGB aa-da doğrultucunun benzetimi ve tasarımı, Postgraduate, T.SÜRGEVİL(Student), 1997

Akpınar E., Design of Current and Speed Controller for Slip Energy Recovery Drive, Postgraduate, A.Doc(Student), 1992

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Channel current analysis of GaN HEMTs with source sense pin in DC/DC boost converters**
Turan Azizoğlu B., Balıkcı A., Akpınar E., Durbaba E.
JOURNAL OF POWER ELECTRONICS, vol.21, no.4, pp.713-723, 2021 (SCI-Expanded)
- II. **Single-Phase Transformerless Photovoltaic Inverter With Suppressing Resonance in Improved H6**
Akpınar E., Balıkcı A., Durbaba E., Turan Azizoğlu B.
IEEE TRANSACTIONS ON POWER ELECTRONICS, vol.34, no.9, pp.8304-8316, 2019 (SCI-Expanded)
- III. **Linear model of a three-phase shunt active power filter with a hysteresis controller**
Vardar K., Akpınar E.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.2, pp.384-398, 2016 (SCI-Expanded)
- IV. **A multilevel converter with reduced number of switches in STATCOM for load balancing**
Balıkcı A., Akpınar E.
Electric Power Systems Research, vol.123, pp.164-173, 2015 (SCI-Expanded)
- V. **A three-phase four-wire static synchronous compensator with reduced number of switches for unbalanced loads**
Balıkcı A., Akpınar E.
IET POWER ELECTRONICS, vol.7, no.6, pp.1630-1643, 2014 (SCI-Expanded)
- VI. **Comparing ADALINE and IRPT methods based on shunt active power filters**

- Vardar K., Akpınar E.
EUROPEAN TRANSACTIONS ON ELECTRICAL POWER, vol.21, no.1, pp.924-936, 2011 (SCI-Expanded)
- VII. **Evaluation of reference current extraction methods for DSP implementation in active power filters**
Vardar K., Akpınar E., Suervevil T.
ELECTRIC POWER SYSTEMS RESEARCH, vol.79, no.10, pp.1342-1352, 2009 (SCI-Expanded)
- VIII. **Power quality analysis of wind farm connected to Alacati substation in Turkey**
Mutlu O. S., Akpınar E., Balıkcı A.
RENEWABLE ENERGY, vol.34, no.5, pp.1312-1318, 2009 (SCI-Expanded)
- IX. **Transformerless single phase inverter design for LCD television**
Akpınar E., Yilmazlar I.
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.53, no.2, pp.697-703, 2007 (SCI-Expanded)
- X. **Discussion on the qd/qd model of slip energy recovery drive**
AKPINAR E.
ELECTRIC POWER SYSTEMS RESEARCH, vol.77, no.1, pp.64-70, 2007 (SCI-Expanded)
- XI. **Modelling of a 5-kW wind energy conversion system with induction generator and comparison with experimental results**
Surgevil T., Akpınar E.
RENEWABLE ENERGY, vol.30, no.6, pp.913-929, 2005 (SCI-Expanded)
- XII. **abc/qd, qd/abc model of a double-cage induction machine and determination of parameters using the genetic algorithm**
Surgevil T., Akpınar E.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.31, no.12, pp.1115-1131, 2003 (SCI-Expanded)
- XIII. **Stability analysis of a closed-loop control for a pulse width modulated DC motor drive**
Gürbüz F., Akpınar E.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.10, no.3, pp.427-438, 2002 (SCI-Expanded)
- XIV. **Harmonic analysis and performance improvement of slip energy recovery induction motor drives**
Faiz J., Barati H., AKPINAR E.
IEEE TRANSACTIONS ON POWER ELECTRONICS, vol.16, no.3, pp.410-417, 2001 (SCI-Expanded)
- XV. **Modeling and analysis of a two-phase permanent magnet brushless motor**
Oztura H., Akpınar E.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.29, no.2, pp.89-104, 2001 (SCI-Expanded)
- XVI. **Design of current and speed controllers for slip energy recovery induction motor drive using root-locus technique**
Faiz J., Barati H., AKPINAR E.
EUROPEAN TRANSACTIONS ON ELECTRICAL POWER, vol.11, no.1, pp.39-48, 2001 (SCI-Expanded)
- XVII. **Modelling of multimachine transients during unbalanced power system disturbances**
Akpınar E., Pillay P., Sabur S.
ELECTRIC POWER SYSTEMS RESEARCH, vol.42, no.1, pp.17-20, 1997 (SCI-Expanded)
- XVIII. **Induction motor drive behavior during unbalanced faults**
Akpınar E., Pillay P., Richards G.
ELECTRIC POWER SYSTEMS RESEARCH, vol.36, no.2, pp.131-138, 1996 (SCI-Expanded)
- XIX. **MODELING AND PERFORMANCE OF A 120-DEGREES SQUARE-WAVE INVERTER/INDUCTION MACHINE DRIVE**
Akpınar E., Pillay P.
ELECTRIC POWER SYSTEMS RESEARCH, vol.31, no.1, pp.21-29, 1994 (SCI-Expanded)
- XX. **MODELING AND ANALYSIS OF CLOSED-LOOP SLIP ENERGY RECOVERY INDUCTION-MOTOR DRIVE USING A LINEARIZATION TECHNIQUE**
Akpınar E., Trahan R., Nguyen A.
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.8, no.4, pp.688-697, 1993 (SCI-Expanded)
- XXI. **CALCULATION OF THE OVERLAP ANGLE IN SLIP ENERGY RECOVERY DRIVES USING A D,Q/ABC MODEL**

- Akpınar E., Pillay P., Ersak A.
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.8, no.2, pp.229-235, 1993 (SCI-Expanded)
- XXII. **AUTONOMOUS WIND ENERGY-CONVERSION SYSTEM WITH A SIMPLE CONTROLLER FOR MAXIMUM-POWER TRANSFER**
ERMİS M., ERTAN H., AKPINAR E., ULGUT F.
IEE PROCEEDINGS-B ELECTRIC POWER APPLICATIONS, vol.139, no.5, pp.421-428, 1992 (SCI-Expanded)
- XXIII. **STARTING TRANSIENTS IN SLIP ENERGY RECOVERY INDUCTION-MOTOR DRIVES .1. FORMULATION AND MODELING**
Akpınar E., Pillay P., Ersak A.
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.7, no.1, pp.238-244, 1992 (SCI-Expanded)
- XXIV. **STARTING TRANSIENTS IN SLIP ENERGY RECOVERY INDUCTION-MOTOR DRIVES .2. FLOWCHART AND PERFORMANCE**
Akpınar E., Pillay P., Ersak A.
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.7, no.1, pp.245-251, 1992 (SCI-Expanded)
- XXV. **A COMPUTER-PROGRAM TO PREDICT THE PERFORMANCE OF SLIP ENERGY RECOVERY INDUCTION-MOTOR DRIVES**
Akpınar E., Pillay P.
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.5, no.2, pp.357-365, 1990 (SCI-Expanded)
- XXVI. **MODELING AND PERFORMANCE OF SLIP ENERGY RECOVERY INDUCTION-MOTOR DRIVES**
Akpınar E., Pillay P.
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.5, no.1, pp.203-210, 1990 (SCI-Expanded)

Articles Published in Other Journals

- I. **Analysis of resonance frequency at six-step induction motor drive with long cable connection in a geothermal plant**
İpek S. N., Akpınar E.
INTERNATIONAL JOURNAL OF POWER AND ENERGY CONVERSION, vol.14, no.1, pp.24-44, 2023 (Scopus)
- II. **Cascaded Controller for Single-Phase Shunt Active Power Filter and STATCOM**
Balıkcı A., Hafezi H., Akpınar E.
International Journal of Renewable Energy Technology, vol.13, no.1, pp.28-47, 2022 (Scopus)
- III. **Analysis and Control of Single Phase Grid Connected Modular Multilevel Converter in Per Unit**
Beyhan E., Akpınar E.
European Mechanical Science, vol.4, no.4, pp.179-184, 2020 (Peer-Reviewed Journal)
- IV. **3 Faz Dengeli Reaktif Güçler için STATCOM Analizi**
Balıkcı A., Akpınar E.
3e Electrotech, no.201, pp.264-272, 2011 (Peer-Reviewed Journal)
- V. **Elektrik Ark Fırınlarının Dönen Elektrik Makinaları Üzerindeki Etkisinin İncelenmesi**
SÜRGEVİL T., AKPINAR E.
3e Electrotech, no.189, pp.290-295, 2010 (Peer-Reviewed Journal)
- VI. **Design and Control of Exterior-Rotor Brushless DC Motor For Fan-Type Load**
Akpınar E., Gergöz O., Cengiz C.
Journal of Electromotion, vol.10, no.3, pp.211-216, 2003 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Elektrik Makinalarının Temel İlkeleri**
Akpınar E.
DEÜ Mühendislik Fakültesi İzmir, İzmir, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **Sabit Gerilim veya Sabit Akı Altında Frekansın Endüktans ve Çekirdek Kaybı Üzerinde Etkisi**
BAYSAL İ., AKPINAR E.
Elektri-Elektronik ve Biyomedikal Mühendisliği Konferansı, Bursa, Turkey, 24 November 2022
- II. **Dead-time Effect on the Leakage Current of GridConnected Single-Phase Photovoltaic Inverter**
Balıkcı A., Akpınar E., Durbaba E., Kocamış A. E., Turan Azizoğlu B.
2021 IEEE Electrical Power and Energy Conference (EPEC), Toronto, Canada, 22 October 2021
- III. **Control of Modular Multilevel Converter under Unequal Arm Capacitor Values**
Kocamis A. E., AKPINAR E.
7th International Conference on Electrical Energy Systems (ICEES), ELECTR NETWORK, 11 - 13 February 2021, pp.38-44
- IV. **Comparing the Efficiency of Cascode GaN and Enhancement GaN in Boost Converter of PV System**
Turan Azizoğlu B., Balıkcı A., Durbaba E., Akpınar E., Kocamis A. E.
14th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), ELECTR NETWORK, 8 - 10 July 2020, pp.340-345
- V. **Jeotermal ve Denizaltı Petrol Kuyularında Kullanılan Üç Faz Asenkron Motor ve 120 derece Sürücü İçeren Sistemler için Rezonans Frekansı Tespiti**
İpek S. N., Akpınar E.
International Turkic World Congress on Science and Engineering, Niğde, Turkey, 17 June 2019
- VI. **Analysis and Control of Single Phase Grid Connected Modular Multilevel Converter in Per Unit**
BEYHAN ÇERÇİ E., AKPINAR E.
4th International Mediterranean Science and Engineering Congress (IMSEC), Antalya, Turkey, 25 April 2019
- VII. **Fast Prototyping of A Photovoltaic System by Using DSP in MATLAB Simulation Loop**
DURBABA E., AKPINAR E., BALIKCI A., TURAN AZİZOĞLU B., Kocamis A. E.
45th Annual Conference of the IEEE Industrial Electronics Society (IECON), Lisbon, Portugal, 14 - 17 October 2019, pp.1768-1773
- VIII. **Single-Phase STATCOM with Multilevel U-Cell Converter**
BALIKCI A., AKPINAR E., DURBABA E.
2017 10TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.340-344
- IX. **Efficiency Calculation of Inverter for PV Applications Using MATLAB and SPICE**
BALIKCI A., TURAN AZİZOĞLU B., DURBABA E., AKPINAR E.
International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, 25 - 27 May 2017, pp.593-598
- X. **Calculation of Zero Sequence Inductance of a Three-Phase Reactor**
AKPINAR E., Selici D.
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.111-115
- XI. **Five-Level Converter with Selective Harmonic Elimination for STATCOM**
BALIKCI A., AKPINAR 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, Turkey, 2 - 04 September 2015, pp.129-134
- XII. **Assessment of Two Different Reactive Power Estimation Methods on Single Phase Loads**
Hafezi H., AKPINAR E., BALIKCI A.
16th International Power Electronics and Motion Control Conference and Exposition (PEMC), Antalya, Turkey, 21 - 24 September 2014, pp.82-87
- XIII. **Cascade PI Controller for Single-phase STATCOM**
Hafezi H., AKPINAR E., BALIKCI A.
16th International Power Electronics and Motion Control Conference and Exposition (PEMC), Antalya, Turkey, 21 -

24 September 2014, pp.88-93

- XIV. **A three-phase four-wire statcom with reduced number of switches for unbalanced loads**
Balıkcı A., Akpınar E.
10th IET International Conference on AC and DC Power Transmission, ACDC 2012, Birmingham, United Kingdom, 4 - 05 December 2012, vol.2012
- XV. **Design and PSPICE analysis of a grid connected multilevel converter with reduced number of switches**
Balıkcı A., Akpınar E., Vardar K., Turan Azizoğlu B.
10th IET International Conference on AC and DC Power Transmission, ACDC 2012, Birmingham, United Kingdom, 4 - 05 December 2012, vol.2012
- XVI. **Stability Analysis of AC-DC Unity Power Factor PWM Boost Rectifier with Hysteresis Current Controller**
Vardar K., AKPINAR E.
International Aegean Conference on Electrical Machines and Power Electronics / Electromotion Joint Conference, İstanbul, Turkey, 8 - 10 September 2011, pp.152-157
- XVII. **A Novel Multilevel Converter Used For Three Phase STATCOM under Unbalanced Load**
BALIKCI A., AKPINAR E.
International Aegean Conference on Electrical Machines and Power Electronics / Electromotion Joint Conference, İstanbul, Turkey, 8 - 10 September 2011, pp.158-163
- XVIII. **Analysis of STATCOM under 3 phase balanced reactive load**
BALIKCI A., AKPINAR E.
National Conference on Electrical, Electronics and Computer Engineering, Bursa, Turkey, 2 - 05 December 2010
- XIX. **Assessing the Grid Codes For Wind Power Plants in Turkey**
MUTLU Ö. S., AKPINAR E.
World Wind Energy Conference (WWEC), İstanbul, Turkey, 05 May 2010
- XX. **DSP tabanlı güç elektroniği uygulamalarında hızlı prototip geliştirme**
Vardar K., Balıkcı A., Akpınar E.
Elektrik, Elektronik, Bilgisayar ve Biyomedikal Mühendisliği Ulusal Kongresi 2009, Ankara, Turkey, 23 - 26 December 2009, vol.1, pp.1
- XXI. **Effects of electric arc furnace loads on synchronous generators and asynchronous motors**
Sürgevil T., Akpınar E.
6th International Conference on Electrical and Electronics Engineering, ELECO 2009, Bursa, Turkey, 5 - 08 November 2009
- XXII. **Rapid prototyping applications on three-phase PWM rectifier and shunt active power filter**
Vardar K., Sürgevil T., Akpınar E.
6th International Conference on Electrical and Electronics Engineering, ELECO 2009, Bursa, Turkey, 5 - 08 November 2009
- XXIII. **Analysis of shunt active power filters using PSCAD for parallel operation**
Sürgevil T., Vardar K., Akpınar E.
6th International Conference on Electrical and Electronics Engineering, ELECO 2009, Bursa, Turkey, 5 - 08 November 2009
- XXIV. **Rüzgar Enerjisi Dönüşüm Sistemlerinde Kullanılan Bilezikli Asenkron Makinanın Kontrolü ve Harmonik Analizi**
Balıkcı A., Akpınar E., Mutlu Ö. S.
2. Rüzgar Enerjisi Sempozyumu(RÜGES 2009), Samsun, Turkey, 09 September 2009, pp.89-94
- XXV. **Ark Ocaklarının Akım Harmoniklerin Analizleri ile Enerji Sistemi Üzerindeki Bozucu Etkilerinin Belirlenmesi**
Öztura H., Akpınar E.
3. Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 21 - 22 May 2009, pp.28-32
- XXVI. **Elektrik Ark Ocaklarının Enerji Sistemi Üzerindeki Etkilerinin Analizi**
Öztura H., Akpınar E.

Ulusal Elektrik Tesisat Kongresi, İzmir, Turkey, 7 - 10 May 2009, pp.63-79

- XXVII. **Elektrik Güç Sistemine Bağlı REDS Bütünleşik Modellenmesi**
MUTLU Ö. S., AKPINAR E.
YEKSEM 2009 (Yenilenebilir Enerji Kaynakları Sempozyumu), Diyarbakır, Turkey, 05 May 2009
- XXVIII. **Application of Shunt Active Power Filter to Isolated Synchronous Generator System**
Sürgevil T., Akpınar E.
35th Annual Conference of the IEEE-Industrial-Electronics-Society, Porto, Portugal, 3 - 05 November 2009, pp.227-228
- XXIX. **Harmonic Analysis and Arc Furnace Modelling**
Öztura H., Akpınar E.
ISEF 2007, Lisbon, Portugal, 13 - 15 October 2007, vol.1, pp.427-430
- XXX. **İzmir Aliğa Bölgesi Enerji Kalitesinin İncelenmesi**
Öztura H., Akpınar E.
Ege Bölgesi Enerji Forumu, İzmir, Turkey, 29 - 30 March 2007
- XXXI. **Wavelet transform application in active power filter used for slip energy recovery drives**
Yalazan H. T., Suervevil T., Akptnar E.
Joint Conference on Electromotion/IEEE Aegean Conference on Electrical Machines and Power Electronics/, Bodrum, Turkey, 10 - 12 September 2007, pp.398-402
- XXXII. **Transfer of the induction motor to the UPS system after power failure**
Suervevil T., Akpınar E.
Joint Conference on Electromotion/IEEE Aegean Conference on Electrical Machines and Power Electronics/, Bodrum, Turkey, 10 - 12 September 2007, pp.621-627
- XXXIII. **Rüzgar Türbininde Kullanılan AC/DC Çeviricilerde Uzay Vektörü Modülasyonu Yöntemi ile Kontrol**
Cengiz C., Akpınar E.
Yenilenebilir Enerji Kaynakları Sempozyumu (YEKSEM2005), Mersin, Turkey, 05 October 2005, pp.145-149
- XXXIV. **Şebeke Kesintilerinin Asenkron Jeneratörlü Rüzgar Enerjisi Dönüşüm Sistemi Üzerinde Etkisi**
Mutlu Ö. S., Akpınar E.
Yenilenebilir Enerji Kaynakları Sempozyumu (YEKSEM2005), Mersin, Turkey, 05 October 2005, pp.157-163
- XXXV. **A Model of Homopolar Synchronous Generator Feeding 3-Phase Bridge Rectifier**
Akpınar E., Budak D.
International Conference on Electrical and Electronics Engineering (ELECO2005), Bursa, Turkey, 05 May 2005, pp.172-176
- XXXVI. **Comparison of Fuzzy Logic and Digital PI Controllers for an Induction Generator Drive in Wind Energy Conversion System**
SÜRGEVİL T., AKPINAR E., Pravadaloğlu S.
ICEM 2004, Cracow, Poland, 5 - 08 September 2004
- XXXVII. **Şebeke Bağlantılı Çift Kafes Asenkron Jeneratörlü Rüzgar Enerjisi Dönüşüm Sistemi Üzerinde Verim Analizi**
SÜRGEVİL T., AKPINAR E.
YEKSEM 2003, Turkey, 15 - 18 October 2003
- XXXVIII. **Şebeke Bağlantılı ve Değişken Hızlı Asenkron Jeneratörün Rüzgar Enerjisi Dönüşüm Sisteminde Kontrolü**
Sürgevil T., Akpınar E.
YEKSEM 2003, İzmir, Turkey, 15 - 18 October 2003
- XXXIX. **Implementation of Fuzzy Controller for DC-Servo Drive Using a Low-cost Microcontroller**
Pravadaloğlu S., AKPINAR E.
10. International Power Electronics and Motion Control Conference, Croatia, 05 May 2002
- XL. **Elektrik Motor ve Sürücülerinin Enerji Verimliliği Üzerine Etkisi**
AKPINAR E., SÜRGEVİL T.
3. Enerji Sempozyumu, Ankara, Turkey, 5 - 07 December 2001
- XLI. **Unified Transformation for qd/qd, qd/abc, abc/qd Model of a Single-Cage Induction Machine**

Sürgevil T., Akpınar E.

ACEMP 2001, Aydın, Turkey, 27 - 29 June 2001

- XLII. **Rüzgar Gücünden Elektriksel Güç Elde Etmede Kullanılan Dönüşüm Sistemleri ve Kontrol Teknikleri**
Sürgevil T., Akpınar E.
Yenilenebilir Enerji Kaynakları Sempozyumu, Mersin, Turkey, 18 - 20 January 2001
- XLIII. **DC Motor sürücüsü İçin Akım ve Hız Geribeslemeli Optimal Denetleyici Tasarımı ve Benzeşimi**
Gürbüz F., Akpınar E.
Elektrik-Elektronik-Bilgisayar Sempozyumu (2000), Bursa, Turkey, 05 May 2000, pp.218-222
- XLIV. **Stability Analysis of Slip Energy Recovery Induction Motor Drive**
Akpınar E., Ungan E.
International Conference on Electrical and Electronics Engineering (ELECO1999), Bursa, Turkey, 05 December 1999
- XLV. **Detection of Unbalance MMF in Permanent Magnet Direct current Machines Using Vibration**
Gergöz O., Akpınar E.
International Conference on Electrical and Electronics Engineering (ELECO1999), Bursa, Turkey, 05 December 1999
- XLVI. **DC Amper-Saat Ölçüm Devresinin Tasarım ve Uygulaması**
Sürgevil T., Akpınar E.
Elektrik-Elektronik Bilgisayar Mühendisliği 8. Ulusal Kongresi, Bursa, Turkey, 6 - 12 September 1999
- XLVII. **Sabit Mıknatıslı Değişken Hava Aralıklı Motorlarda Sonlu Elemanlar Yöntemi İle Sargı Endüktanslarının Bulunması**
Öztura H., Akpınar E.
Elektrik-Elektronik Bilgisayar Mühendisliği 8. Ulusal Kongresi, Gaziantep, Turkey, 6 - 12 September 1999, pp.154-157
- XLVIII. **Sabit Mıknatıslı Değişken Hava Aralıklı Motorlarda Torkun Nümerik Olarak Hesaplanması**
Öztura H., Akpınar E.
Elektrik-Elektronik Bilgisayar Mühendisliği 8. Ulusal Kongresi, Gaziantep, Turkey, 6 - 12 September 1999, vol.1, pp.158-161
- XLIX. **ABCqd Model of a 3-Phase Induction Motor for Bus Transfer and Drives**
Akpınar E., Ungan E.
International Conference on Power System Transients, Budapest, Hungary, 05 June 1999, pp.265-270
- L. **Analysis of A Two-Phase Permanent Magnet Motor with Variable Reluctance**
Öztura H., Akpınar E.
International Symposium on Electromagnetic Fields in Electrical Engineering (ISEF99), Palermo, Italy, 05 May 1999, pp.45-48
- LI. **Simulation of Pulse Width Modulated (PWM) Chopper Drives Using Z- Transformation**
Gürbüz F., Akpınar E.
9. Mediterranean Electrotechnical Conference, Tel-Aviv-Yafo, Israel, 06 May 1998, pp.1255-1259
- LII. **Optimal Control of Digitally Controlled DC Drive Using a Quadratic Performance Index**
Gürbüz F., Akpınar E.
International Conference on Electrical Machines (ICEM1998), İstanbul, Turkey, 05 May 1998, pp.1207-1212
- LIII. **PWM AC/DC Doğrultucuların Analizi İçin Bilgisayar Programlaması**
Sürgevil T., Akpınar E.
Elektrik-Elektronik bilgisayar Mühendisliği 7. Ulusal Kongresi, Ankara, Turkey, 8 - 14 September 1997
- LIV. **Modeling of Multimachine Transients During Unbalanced Power System Disturbances**
Akpınar E., Pillay P., Sabur S.
Fourth Biennial Symposium on Industrial Electric Power Applications, Alabama, United States Of America, 05 May 1994, pp.47-52
- LV. **CLOSED-LOOP CONTROL OF A SLIP ENERGY RECOVERY-SYSTEM - PRACTICAL RESULTS**
AKPINAR E., ERSAR A.
1994 IEEE Southeastcon 94 - Creative Technology Transfer: A Global Affair, Florida, United States Of America, 10 -

13 April 1994, pp.30-34

LVI. Predicting Torque Pulsations in a Slip Energy Recovery Induction Motor Drive

Akpınar E., Ersak A., Pillay P.

EPE, Florence, Italy, 05 May 1991, pp.326-330

LVII. Design and Implementation of A Small Autonomous Wind Energy Conversion System

Ertan H. B., Ermiş M., Akpınar E., Ülgüt F.

Energy Options-The Role of Alternatives in The World Energy Scene, Reading, England, 05 April 1987, pp.111-114

LVIII. The Optimum Synchronous Generator Design for the Generation of Power From the Wind

Ertan H. B., Ermiş M., Akpınar E.

Ulusal Elektrik Mühendisliği Kongresi, Adana, Turkey, 09 September 1985, pp.364-371

LIX. A Fast Convergent Method for the Optimum Design of Synchronous Generators Using Digital Computer

Ertan H. B., Sarıbatır B., Akpınar E.

Elektrik-Elektronik Sempozyumu, İstanbul, Turkey, 05 May 1984

Supported Projects

Akpınar E., TUBITAK Project, Yük Dengelemesi Ve Reaktif Güç Kompanzasyonu İçin Pv Sistem Destekli Modüler Çok Seviyeli Dönüştürücü Tasarımı, 2021 - 2022

Akpınar E., Balıkcı A., Turan Azizoğlu B., TUBITAK Project, Enerji Verimliliği Yüksek Güneş Enerjisi Dönüşüm Sistemi Tasarımı Ve Modellenmesi, 2018 - 2020

Akpınar E., TUBITAK Project, 110E205 - Alternatif H Köprüsü Yapısı kullanılarak Dengesiz yüklerin Ağ Seviyesinde STATCOM ile Kompanzasyonu, 2011 - 2013

Akpınar E., Sürgevil T., TUBITAK Project, Türkiye Elektrik Sisteminde Güç Kalitesine Etki Eden Değişkenleri ve Güç Akışını İzleme Problemlerin Tespiti Değerlendirilmesi ve Karşı Önlemlerin Hayata Geçirilmesi Projesi, 2006 - 2010

Akpınar E., SÜRGEVİL T., TUBITAK Project, PWM Çevirgeç Denetimli İndüksiyon Jeneratör Rüzgar Enerjisi Dönüşüm Sistemi, 2001 - 2003

Akpınar E., Sürgevil T., Project Supported by Higher Education Institutions, PWM Çevirgeçli Denetimli Rüzgar Enerjisi Sistemi, 2001 - 2003

Akpınar E., Gürbüz F., Project Supported by Higher Education Institutions, AC/DC Doğrultucu Tasarımı ve Laboratuvar için Üretimi, 1998 - 1999

Akpınar E., Sürgevil T., Project Supported by Higher Education Institutions, AC/DC PWM Doğrultucu, 1997 - 1998

Akpınar E., Gergöz O., Project Supported by Higher Education Institutions, 3 Fazlı PWM Tetiklemeli IGBT DC/AC çevirgeç için optimum snubber devresi tasarımı, 1997 - 1998

Akpınar E., Pillay P., Other International Funding Programs, Large Process Industry Motor Drive Performance and Power Quality Analysis, 1991 - 1994

Patent

Akpınar E., Balıkcı A., Turan Azizoğlu B., Durbaba E., A single phase inverter for photovoltaic panels, Patent, CHAPTER H Electricity, The Invention Registration Number: WO2020068022A2 , Standard Registration, 2020

Memberships / Tasks in Scientific Organizations

IEEE, Principal Member, 1991 - Continues, United States Of America

Elektrik Mühendisleri Odası, TMMOB, Principal Member, 1981 - Continues, Turkey

Scientific Refereeing

ELECTRIC POWER COMPONENTS AND SYSTEMS, SCI Journal, December 2022
IET POWER ELECTRONICS, SCI Journal, December 2022
ENERGY CONVERSION AND MANAGEMENT, SCI Journal, August 2022
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, July 2022

Scientific Consultations

KOMENERJİ SİSTEMLERİ, Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, Turkey, 2007 - 2008

Tasks In Event Organizations

Akpınar E., International Aegean Conference on Electrical Machines and Power Electronics , Scientific Congress, İstanbul, Turkey, Eylül 2019
Akpınar E., International Aegean Conference on Electrical Machines and Power Electronics, Scientific Congress, Antalya, Turkey, Eylül 2015
Akpınar E., International Aegean Conference on Electrical machines and Power Electronics , Scientific Congress, İstanbul, Turkey, Eylül 2011
Akpınar E., EEUG Meeting 2008, European EMTP-ATP Conference, Scientific Congress, İzmir, Turkey, Eylül 2008
Akpınar E., International Aegean Conference on Electrical Machines and Power Electronics, ACEMP'07, Scientific Congress, Aydın, Turkey, Eylül 2007
Akpınar E., III. Yenilenebilir Enerji Kaynakları Sempozyumu ve Sergisi, Scientific Congress, Turkey, Ekim 2005
Akpınar E., International Aegean Conference on Electrical Machines and Power Electronics, Scientific Congress, Aydın, Turkey, Haziran 2001
Akpınar E., I. Yenilenebilir Enerji Kaynakları Sempozyum ve Sergisi, Scientific Congress, İzmir, Turkey, Ocak 2001

Metrics

Publication: 92
Citation (WoS): 313
Citation (Scopus): 474
H-Index (WoS): 10
H-Index (Scopus): 12

Scholarships

Exchange student for Ph.D Thesis program, British Council, 1987 - 1989

Awards

Ertan H. B., Ermiş M., Akpınar E., Ülgüt F., Overseas Premium Paper Award, Institute Of Electrical Engineering (Iee), İngiltere, September 1993