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Biography

İsmail H. ALTAŞ 1961 yılında Erzurum'un İspir ilçesinde doğdu. 1985 yılında Yıldız Üniversitesi Kocaeli Mühendislik Fakültesi Elektrik Mühendisliği Bölümü'nde lisans eğitimini tamamladı. Karadeniz Teknik Üniversitesi'nde yüksek lisansını, Kanada'da New Brunswick Üniversitesinde doktora eğitimlerini sırasıyla 1988 ve 1993 yıllarında tamamladı.

1986-1994 yılları arasında Karadeniz Teknik Üniversitesi'nde Araştırma Görevlisi olarak, 1994 yılından sonra da öğretim üyesi olarak görev yapmaktadır. 2009 yılından buyana da Elektrik-Elektronik Mühendisliği Bölüm Başkanlığı görevini sürdürmektedir.

1985 yılından buyana EMO üyesidir.

1999 yılında IEEE'ye üye olmuştur. 2007 yılından buyana da IEEE Senior üyesidir. Halen IEEE alt topluluklarından Güç Sistemleri, Kontrol Sistemleri, Endüstriyel Elektronik, Güç Elektroniği, İnsan-Makina-Sibernetik ve Hesaplamalı Akıl topluluklarına üyelikleri devam etmektedir.

2006 yılından buyana IEEE çalışma gruplarından "İletim Sistemleri için HVDC ve Güç Elektroniği Modelleme ve Dinamik Performans Grubu" üyesi, 2007 den buyana da IEEE Güç Elektroniği Topluluğunun teknik komisyonlarından "Yenilenebilir Enerji ve Dağıtık Üretim Sistemlerinde Güç Elektroniği" üyesidir.

2012 den beri MÜDEK üyesidir.

1997 yılında Karadeniz Teknik Üniversitesinde yapılan akademik performans değerlendirmesinde Mühendislik alanı birincisi olmuştur.

Elektrik güç sistemleri, yenilenebilir enerji sistemleri, kontrol sistemleri ve Akıllı sistemler başlıca çalışma alanlarıdır. Akademik çalışmalarını Karadeniz Teknik Üniversitesi Elektrik-Elektronik Mühendisliği Bölümünde oluşturduğu POWENCON (Power, Energy and Control) araştırma grubu ile birlikte yine aynı yerdeki SEUL'de (Sürdürülebilir Enerji Uygulamaları Laboratuvarı) yürütmektedir.

Education Information

Doctorate, The University Of New Brunswick (Unb), Fredericton, New Brunswick, Canada, Faculty Of Engineering, Electrical Engineering, Canada 1988 - 1993

Postgraduate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 1985 - 1988

Undergraduate, Yildiz Technical University, Kocaeli Mühendislik Fakültesi, Elektrik Mühendisliği, Turkey 1981 - 1985

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Control Strategies For Maximum Power Tracking And Energy Utilization Of A Stand-Alone Photovoltaic Energy System, University of New Brunswick: Fredericton Campus, Faculty Of Engineering, Electrical Engineering, 1993
Postgraduate, Girdap Akımı Kayıplarının Sonlu Elemanlar Yöntemi ile Belirlenmesi - Calculation of Eddy Currents Using Finite Elements Method, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği , 1988

Research Areas

Electrical and Electronics Engineering, Energy, Power System Analysis, Generating Stations and Plants, Electric Power Transmission, Distribution and Protection, Renewable energy, High Voltage Technique, Power Electronics, Electrical Machine Theory and Design, Engineering and Technology

Academic Titles / Tasks

Professor, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2007 - Continues
Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 1997 - 2007
Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 1994 - 1997
Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 1986 - 1994

Academic and Administrative Experience

Müdek - Mühendislik Eğitim Programları Değerlendirme Ve Akreditasyon Derneği, 2013 - Continues
Karadeniz Technical University, Mühendislik Fakültesi, 2010 - Continues
Karadeniz Technical University, Elektrik - Elektronik Mühendisliği, 2009 - Continues
Karadeniz Technical University, Fen Bilimleri Enstitüsü, 2009 - Continues
Karadeniz Technical University, Ktü Abdullah Kanca Myo Müdürü, 2007 - 2013
Karadeniz Technical University, Fen Bilimleri Enstitüsü, 2004 - 2006
Karadeniz Technical University, Fen Bilimleri Enstitüsü, 2004 - 2006
Karadeniz Technical University, Ktü-Teknokent Denetleme Kurulu, Ktü-Teknokent, 2003 - 2006
Karadeniz Technical University, Mühendislik-Mimarlık Fakültesi, 2000 - 2005
Karadeniz Technical University, Ktü-Kosgeb Denetleme Kurulu, Ktü - Kosgeb, 1997 - 2003
Karadeniz Technical University, Elektrik - Elektronik Mühendisliği, 2000 - 2001
Karadeniz Technical University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 1998 - 2001
Karadeniz Technical University, Elektrik - Elektronik Mühendisliği, 1995 - 1998

Advising Theses

ALTAŞ İ. H., Küçük Ölçekli Rüzgar Türbinlerinde Yeni Ve Akıllı Bir Statcom Tasarımı Ve Uygulaması, Doctorate, K.Yanmaz(Student), Continues

ALTAŞ İ. H., Elektrik Güç Sistemlerinde Reaktif Gücün Bulanık Mantık Denetimli Statik Var Sistemlerinden Karşılaştırma, Postgraduate, Y.Aysel(Student), Continues

ALTAŞ İ. H., Paralel Mekanizmalı Bir Rehabilitasyon Robotunun Tasarımı ve İnsan-Makine Etkileşimli Denetimi, Doctorate, M.Şinasi(Student), Continues

ALTAŞ İ. H., Fotovoltaik Bağlantılı Akıllı Şebekelerde Güç Kalitesi ve Enerji Yönetimi, Doctorate, R.Çakmak(Student), Continues

ALTAŞ İ. H., Dalga Enerji Sistemlerinde Elektrik Gücü üzerindeki Düzensiz Dalga Etkilerinin Akıllı Kompanzasyon Yöntemleriyle Gidrilmesi, Doctorate, E.Şahin(Student), Continues

ALTAŞ İ. H., Fotovoltaik Güneş Enerji Sistemleri Uygulamalarında Kontrol ve Optimizasyon, Doctorate, S.Duman(Student), Continues

ALTAŞ İ. H., Elektrik Güç Sistemlerinde Bulanık Mantık Tabanlı Yük Frekans Denetimi ve Bir Sayısal Mesafe Rölesi, Postgraduate, R.Mirzapour(Student), 2014

ALTAŞ İ. H., Şebeke Bağlantılı Fotovoltaik Güç Sistemi İçin Pso Tabanlı Aktif Güç Filtresi Kullanılarak Sabit DA Gerilimi Eldesi, Postgraduate, H.Ufacık(Student), 2014

ALTAŞ İ. H., Senkron Motor Güç Katsayısının Bulanık Mantık ile Denetimi, Postgraduate, O.Alıç(Student), 2014

ALTAŞ İ. H., Rüzgar/FV Güneş Enerji Sistemleri İçin PID Kontrol Parametrelerinin GA ve PSO İle Optimizasyonu, Postgraduate, A.Hosseini(Student), 2013

ALTAŞ İ. H., Model Öngörülmesi Kontrol Yönteminin Örneklerle Karşılaştırmalı İncelenmesi, Postgraduate, Y.Danayiyen(Student), 2013

ALTAŞ İ. H., Şebeke Bağlantısız FV-YP Birleşik Sistemleri İçin Anahtarlamalı Bir Güç ve Gerilim Düzenleyici, Postgraduate, G.Görel(Student), 2013

ALTAŞ İ. H., An Intelligent Controlled Novel Power Conditioning For Wave Energy Converter Systems, Doctorate, E.Özkop(Student), 2012

ALTAŞ İ. H., Fotovoltaik Güç Üretim Sistemleri İçin Bulanık Mantık Tabanlı Maksimum Güç Noktası Takip Sistemi, Postgraduate, R.Çakmak(Student), 2012

ALTAŞ İ. H., Sistem Simülasyonu Ve Kontrolü İçin İnteraktif Sanal Laboratuvar, Postgraduate, M.Şinasi(Student), 2012

ALTAŞ İ. H., Yenilenebilir Enerji Sistemlerinde Süreklilik İçin Akıllı Bir Enerji Yönetim Sistemi, Doctorate, O.Özdemir(Student), 2011

ALTAŞ İ. H., Bulanık Sonuçlandırma Tabanlı Bir Güç Filtresi ve Dinamik Gerilim Regülatörünün Bir Fazlı Mikro Rüzgar Güç Üretim Sistemlerine Uygulanması, Postgraduate, K.Yanmaz(Student), 2011

ALTAŞ İ. H., Bulanık Mantık Destekli Güç Akış Analizi, Postgraduate, M.Esen(Student), 2006

ALTAŞ İ. H., Senkron Generatör Uyarma Devresinin Bulanık Mantıkla Denetimi, Doctorate, M.Kubilay(Student), 2005

ALTAŞ İ. H., Hareketli Nesne İzleme Ve Konum Denetimi, Postgraduate, O.Özdemir(Student), 2004

ALTAŞ İ. H., PWM işaretlerinin bilgisayarlarla üretilip denetlenmesi, Postgraduate, A.Fatih(Student), 2004

ALTAŞ İ. H., Güç Dağıtım Hatları İçin Rf Tabanlı Diferansiyel Koruma, Postgraduate, M.Gürler(Student), 2004

ALTAŞ İ. H., Güç Sistemlerinin Optimizasyonunda Genetik Algoritmaların Kullanılması, Postgraduate, E.Uçar(Student), 2003

ALTAŞ İ. H., Güç Sistemleri için Akıllı bir Koruma Rölesi, Doctorate, K.Erentürk(Student), 2002

ALTAŞ İ. H., Güç Sistemlerinde Kararlılık Problemi İçin Bulanık Mantık Yaklaşımı, Postgraduate, B.Uzun(Student), 2001

ALTAŞ İ. H., Elektrik Güç Sistemlerinde Bulanık Mantık Tabanlı Yük Frekans Denetimi ve Bir Sayısal Mesafe Rölesi, Postgraduate, M.Kubilay(Student), 1997

ALTAŞ İ. H., Senkron Motor Güç Katsayısının Bulanık Mantık ile Denetimi, Postgraduate, E.Kılıç(Student), 1996

ALTAŞ İ. H., Elektrik Güç Sistemlerinde Reaktif Gücün Bulanık Mantık Denetimli Statik Var Sistemlerinden Karşılaştırma, Postgraduate, E.Gülay(Student), 1996

Published journal articles indexed by SCI, SSCI, and AHCI

- I. DWT-BILSTM-based models for day-ahead hourly global horizontal solar irradiance forecasting
ÇEVİK BEKTAŞ S., ALTAŞ İ. H.
Neural Computing and Applications, 2024 (SCI-Expanded)

- II. **Performance improvement of an AVR system by symbiotic organism search algorithm-based PID-F controller**
Ozgenç B., Ayas M. Ş., Altas İ. H.
NEURAL COMPUTING & APPLICATIONS, vol.34, no.10, pp.7899-7908, 2022 (SCI-Expanded)
- III. **A Fast Non-dominated Sorting Multi-objective Symbiotic Organism Search Algorithm for Energy Efficient Locomotion of Snake Robot**
Baysal Y., Altas I.
COMPUTER SCIENCE AND INFORMATION SYSTEMS, vol.19, no.1, pp.353-378, 2022 (SCI-Expanded)
- IV. **Multi-objective symbiotic organism search algorithm for optimal feature selection in brain computer interfaces**
BAYSAL Y. A., Ketenci S., ALTAŞ İ. H., KAYIKÇIOĞLU T.
EXPERT SYSTEMS WITH APPLICATIONS, vol.165, 2021 (SCI-Expanded)
- V. **High order differential feedback controller design and implementation for a Stewart platform**
AYAS M. Ş., ŞAHİN E., ALTAŞ İ. H.
JOURNAL OF VIBRATION AND CONTROL, vol.26, pp.976-988, 2020 (SCI-Expanded)
- VI. **Neuro-Fuzzy-Based Model Predictive Energy Management for Grid Connected Microgrids**
Ulutas A., ALTAŞ İ. H., ÖNEN A., Ustun T. S.
ELECTRONICS, vol.9, no.6, 2020 (SCI-Expanded)
- VII. **Modelling and Simulation of a Wheel-Less Snake Robot**
BAYSAL Y. A., ALTAŞ İ. H.
2020 7TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING (ICEEE 2020), pp.285-289, 2020 (SCI-Expanded)
- VIII. **Optimized fractional order control of a cascaded synchronous buck-boost converter for a wave-UC hybrid energy system**
ŞAHİN E., ALTAŞ İ. H.
ELECTRICAL ENGINEERING, vol.100, no.2, pp.653-665, 2018 (SCI-Expanded)
- IX. **Designing and implementing a plug-in type repetitive controller for a redundantly actuated ankle rehabilitation robot**
AYAS M. Ş., ALTAŞ İ. H.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, vol.232, no.5, pp.592-607, 2018 (SCI-Expanded)
- X. **A novel model predictive-fuzzy logic hybrid controller design for D-STATCOM in wind energy distribution systems**
Yanmaz K., Altas I. H., MENGI O. O.
GLOBAL NEST JOURNAL, vol.20, no.1, pp.177-182, 2018 (SCI-Expanded)
- XI. **Fractional order based trajectory tracking control of an ankle rehabilitation robot**
AYAS M. Ş., ALTAŞ İ. H., ŞAHİN E.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.40, no.2, pp.550-564, 2018 (SCI-Expanded)
- XII. **A novel MPPT algorithm based on optimized artificial neural network by using FPSOGSA for standalone photovoltaic energy systems**
Duman S., YÖRÜKEREN N., ALTAŞ İ. H.
NEURAL COMPUTING & APPLICATIONS, vol.29, no.1, pp.257-278, 2018 (SCI-Expanded)
- XIII. **Fuzzy logic based adaptive admittance control of a redundantly actuated ankle rehabilitation robot**
AYAS M. Ş., ALTAŞ İ. H.
CONTROL ENGINEERING PRACTICE, vol.59, pp.44-54, 2017 (SCI-Expanded)
- XIV. **FPA Tuned Fuzzy Logic Controlled Synchronous Buck Converter for a Wave/SC Energy System**
ŞAHİN E., ALTAŞ İ. H.
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.17, no.1, pp.39-48, 2017 (SCI-Expanded)
- XV. **Five Level Cascaded H-Bridge D-STATCOM using a new Fuzzy and PI Controllers model for Wind Energy Systems**

- Yanmaz K, ALTAŞ İ. H., Mengi O. O.
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.17, no.4, pp.49-58, 2017 (SCI-Expanded)
- XVI. **Control, power and electrical components in wave energy conversion systems: A review of the technologies**
ÖZKOP E., ALTAŞ İ. H.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.67, pp.106-115, 2017 (SCI-Expanded)
- XVII. **Fast measurement of headlamps by means of a developed fuzzy luxmeter based on a fuzzy mapping algorithm**
AYAS M. Ş., ALTAŞ İ. H., ALCELIK T.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.4, pp.2627-2637, 2016 (SCI-Expanded)
- XVIII. **A Virtual Laboratory for System Simulation and Control With Undergraduate Curriculum**
AYAS M. Ş., ALTAŞ İ. H.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.24, no.1, pp.122-130, 2016 (SCI-Expanded)
- XIX. **Gravitational search algorithm for determining controller parameters in an automatic voltage regulator system**
Duman S., YÖRÜKEREN N., ALTAŞ İ. H.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.4, pp.2387-2400, 2016 (SCI-Expanded)
- XX. **An adaptive fuzzy PI controlled bus quantity enhancer for wave energy systems**
ÖZKOP E., Sharaf A. M., ALTAŞ İ. H.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.4, pp.2454-2469, 2016 (SCI-Expanded)
- XXI. **A fuzzy logic sliding mode controlled electronic differential for a direct wheel drive EV**
ÖZKOP E., ALTAŞ İ. H., OKUMUŞ H. İ., Sharaf A. M.
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.102, no.11, pp.1919-1942, 2015 (SCI-Expanded)
- XXII. **A DIFFERENT FUZZY DECISION MAKING MPPT METHOD FOR A MICRO POWER WIND TURBINE**
Mengi O. O., ALTAŞ İ. H.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.30, no.2, pp.197-206, 2015 (SCI-Expanded)
- XXIII. **A New Energy Management Technique for PV/Wind/Grid Renewable Energy System**
Mengi O. O., ALTAŞ İ. H.
INTERNATIONAL JOURNAL OF PHOTOENERGY, 2015 (SCI-Expanded)
- XXIV. **A novel modified hybrid PSO-GSA based on fuzzy logic for non-convex economic dispatch problem with valve-point effect**
Duman S., YÖRÜKEREN N., ALTAŞ İ. H.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.64, pp.121-135, 2015 (SCI-Expanded)
- XXV. **Solar Energy and PV Systems**
ALTAŞ İ. H., Sharaf A. M.
INTERNATIONAL JOURNAL OF PHOTOENERGY, 2014 (SCI-Expanded)
- XXVI. **Gravitational search algorithm for determination of controller parameters in an AVR system**
ALTAŞ İ. H., Yörükeren N., Duman S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, no.0, 2014 (SCI-Expanded)
- XXVII. **A Novel Control Algorithm for Self Adjusting Dynamic Voltage Stabilization Scheme**
Özkop E., Sharaf A. M., ALTAŞ İ. H.
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.20, no.3, pp.33-38, 2014 (SCI-Expanded)
- XXVIII. **A Virtual PV Systems Lab for Engineering Undergraduate Curriculum**
Özkop E., ALTAŞ İ. H.
INTERNATIONAL JOURNAL OF PHOTOENERGY, 2014 (SCI-Expanded)
- XXIX. **A novel switched power filter-green plug (SPF-GP) scheme for wave energy systems**

- ÖZKOP E., ALTAŞ İ. H., Sharaf A. M.
RENEWABLE ENERGY, vol.44, pp.340-358, 2012 (SCI-Expanded)
- XXX. **Fuzzy logic control for a wind/battery renewable energy production system**
Mengi O. O., ALTAŞ İ. H.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.20, no.2, pp.187-206, 2012
(SCI-Expanded)
- XXXI. **A novel hybrid active filter compensator for stabilization of wind-utility grid interface scheme**
Sharaf A. M., Wang W., ALTAŞ İ. H.
EUROPEAN TRANSACTIONS ON ELECTRICAL POWER, vol.20, no.3, pp.306-326, 2010 (SCI-Expanded)
- XXXII. **A real-time computer-controlled simulator: For control systems**
ALTAŞ İ. H., AYDAR H.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.16, no.2, pp.115-126, 2008 (SCI-Expanded)
- XXXIII. **A novel maximum power fuzzy logic controller for photovoltaic solar energy systems**
ALTAŞ İ. H., Sharaf A. M.
RENEWABLE ENERGY, vol.33, no.3, pp.388-399, 2008 (SCI-Expanded)
- XXXIV. **A fuzzy voltage regulator (FVR) for a stand-alone synchronous generator**
Eker M. K., Altas I. H.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.35, no.4, pp.429-443, 2007 (SCI-Expanded)
- XXXV. **Fault identification in a radial power system using fuzzy logic**
Erentürk K., Altas I.
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.32, no.6, pp.641-653, 2004 (SCI-Expanded)
- XXXVI. **The effects of the number of rules on the output of a fuzzy logic controller employed to a PM d.c. motor**
Eminoğlu İ., Altas I.
COMPUTERS & ELECTRICAL ENGINEERING, vol.24, pp.245-261, 1998 (SCI-Expanded)
- XXXVII. **A novel on-line MPP search algorithm for PV arrays**
Altas I., Sharaf A. M.
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.11, no.4, pp.748-754, 1996 (SCI-Expanded)
- XXXVIII. **A method to form fuzzy logic control rules for a PMDC motor drive system**
Eminoğlu İ., Altas I.
ELECTRIC POWER SYSTEMS RESEARCH, vol.39, no.2, pp.81-87, 1996 (SCI-Expanded)
- XXXIX. **A FUZZY-LOGIC POWER TRACKING CONTROLLER FOR A PHOTOVOLTAIC ENERGY-CONVERSION SCHEME**
ALTAŞ İ. H., Sharaf A. M.
ELECTRIC POWER SYSTEMS RESEARCH, vol.25, no.3, pp.227-238, 1992 (SCI-Expanded)

Articles Published in Other Journals

- I. **Design of Evolutionary Algorithm Based PID Controller with filter for an Automatic Voltage Regulator**
ÖZGENÇ B., AYAS M. Ş., ALTAŞ İ. H.
Karadeniz Fen Bilimleri Dergisi, vol.10, no.1, pp.74-90, 2020 (Peer-Reviewed Journal)
- II. **Optimally Tuned PID Controller Design for an AVR System: A Comparison Study**
Özgenç B., Ayas M. Ş., Altaş İ. H.
International Journal of Multidisciplinary Studies and Innovative Technologies, vol.3, no.2, pp.157-161, 2019 (Peer-Reviewed Journal)
- III. **Prediction of Day Ahead Hourly Solar Radiation by Meteorological Forecasting Supported Artificial Neural Network: A Case Study for Trabzon Province**
Çevik Bektaş S., Çakmak R., Altaş İ. H.
JOURNAL OF INTELLIGENT SYSTEMS WITH APPLICATIONS, vol.1, no.2, pp.87-92, 2018 (Peer-Reviewed Journal)

- IV. **MFLC-PI CONTROLLED TWO LEVEL INVERTER BASED D-STATCOM FOR WIND ENERGY SYSTEMS**
Yanmaz K., ALTAŞ İ. H., Mengi O. O.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.8, no.2, pp.161-168, 2017 (ESCI)
- V. **MODEL PREDICTIVE CONTROL OF A DC-DC BUCK CONVERTER**
Danayiyen Y., Altaş İ. H., Şahin E.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.8, no.2, pp.91-97, 2017 (Peer-Reviewed Journal)
- VI. **Buhar Generatörünün Su Seviyesi Denetimi için PSO Temelli Klasik ve Akıllı Denetleyicilerin Performansı**
ÖZKOP E., ALTAŞ İ. H.
Dokuz Eylül Üniversitesi Fen ve Mühendislik Dergisi, vol.19, no.57, pp.835-844, 2017 (Peer-Reviewed Journal)
- VII. **BUHAR GENERATÖRÜNÜN SU SEVİYESİ DENETİMİ İÇİN PSO TEMELLİ KLASİK VE AKILLI DENETLEYİCİLERİN PERFORMANSI**
ÖZKOP E., ALTAŞ İ. H.
Dokuz Eylül Üniversitesi Fen ve Mühendislik Dergisi, vol.19, no.57, pp.835-844, 2017 (Peer-Reviewed Journal)
- VIII. **Performance of PSO Based Classical and Intelligent Controllers for Water Level Control of a Steam Generator**
Özkop E., Altaş İ. H.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.19, no.57, pp.835-844, 2017 (Peer-Reviewed Journal)
- IX. **STATCOM Application With FLC and Voltage Control on The Load in The Hybrid Model of Fuel Cell/Solar Panels System**
MENĞİ O. Ö., YANMAZ K., ALTAŞ İ. H.
Mugla Journal of Science and Technology, vol.3, no.1, pp.45-50, 2017 (Peer-Reviewed Journal)
- X. **POWER QUALITY IMPROVEMENT VIA OPTIMAL CAPACITOR PLACEMENT IN ELECTRICAL DISTRIBUTION SYSTEMS USING SYMBIOTIC ORGANISMS SEARCH ALGORITHM**
BAYSAL Y. A., ALTAŞ İ. H.
Mugla Journal of Science and Technology, vol.3, no.1, pp.64-68, 2017 (Peer-Reviewed Journal)
- XI. **POWER QUALITY IMPROVEMENT VIA OPTIMAL CAPACITOR PLACEMENT IN ELECTRICAL DISTRIBUTION SYSTEMS USING SYMBIOTIC ORGANISMS SEARCH ALGORITHM**
BAYSAL Y. A., ALTAŞ İ. H.
Mugla Journal of Science and Technology, vol.3, no.1, pp.64-68, 2017 (Peer-Reviewed Journal)
- XII. **A Self Adjustable FACTS Device and Controller for Distribution Systems**
ÖZKOP E., ALTAŞ İ. H., Sharaf A.
AFYON KOCATEPE ÜNİVERSİTESİ FEN VE MÜHENDİSLİK BİLİMLERİ DERGİSİ, vol.17, no.1, pp.131-137, 2017 (Peer-Reviewed Journal)
- XIII. **A Self Adjustable FACTS Device and Controller for Distribution Systems**
ÖZKOP E., ALTAŞ İ. H., Sharaf A.
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- LXXVIII. **A Novel Multi-loop Fuzzy Logic Dynamic Controller for Wave/Photovoltaic-Grid Interface DC Energy Utilization Farm**
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- LXXXIV. **Rüzgâr/Fotovoltaik Karma Sisteminden Beslenen DA Yükler için Üç Çevrim Destekli PID Denetleyici**
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- LXXXV. **Ayrık Çift Tekerlekten Tahrikli Elektrikli Araçlar için Bulanık Mantık Denetimli Elektronik Diferansiyel Sistemi**
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- XCIII. **A hybrid photovoltaic PV array-battery powered EV-PMDC drive scheme**
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2007 IEEE Canada Electrical Power Conference, EPC 2007, Montreal, Canada, 25 - 26 October 2007, pp.37-43
- XCIV. **Elektrikli Araçlar İçin Çift Çevrim Destekli DA Motor Kontrol Uygulaması**
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12. Elektrik Elektronik Bilgisayar Biyomedikal Mühendisliği Ulusal Kongresi ve Fuarı, Eskişehir, Turkey, 14 - 18 November 2007, pp.443-448
- XCV. **Bulanık Mantık Denetleyici ile Aktif Otomobil Süspansiyon Denetimi**
ÖZKOP E., ALTAŞ İ. H.
12. Elektrik Elektronik Bilgisayar Biyomedikal Mühendisliği Ulusal Kongresi ve Fuarı, Eskişehir, Turkey, 14 - 18 November 2007, pp.613-616
- XCVI. **Dynamic Voltage Stabilization of Stand Alone Wind Energy Schemes**
Sharaf A. M., Aljankawey A. b. S., ALTAŞ İ. H.
Electrical Power Conference, 25 - 26 October 2007
- XCVII. **A novel GUI modeled fuzzy logic controller for a solar powered energy utilization scheme**
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The 13th international conference on emerging nuclear energy systems (ICENES2007), İstanbul, Turkey, 3 - 08 June 2007
- XCVIII. **A Novel Voltage Stabilization Control Scheme for Stand alone Wind Energy Conversion Systems**
Sharaf A. M., Aljankawey A., ALTAŞ İ. H.
2007 International Conference on Clean Electrical Power, Capri, Italy, Italy, 21 - 23 May 2007, pp.514-519
- XCIX. **A Photovoltaic Array Simulation Model for Matlab Simulink GUI Environment**
ALTAŞ İ. H., SHARAF A. M.

International Conference on Clean Electrical Power, ICCEP'2007, Capri, Italy, 21 - 23 May 2007, pp.341-345

- C. **A Switched Mode Simulation Model for a PMDC Motor Scheme Controlled by Predictive Dynamic Controller**
Sharaf A. M., Albakush E., Altaş İ. H., OKUMUŞ H. İ.
Electric Machines & Drives Conference, 2007. IEMDC '07, Antalya, Turkey, 2 - 05 May 2007, pp.1711-1715
- CI. **A novel photovoltaic on line search algorithm for maximum energy utilization**
ALTAŞ İ. H., SHARAF A. M.
The International Conference on Communication, Computer and Power (ICCCP'07), 19 - 21 February 2007
- CII. **Novel control strategies using load matching for maximum photovoltaic energy utilization**
ALTAŞ İ. H., Sharaf A. M.
20th Annual Canadian Conference on Electrical and Computer Engineering, Vancouver, Canada, 22 - 26 April 2007, pp.1578-1581
- CIII. **Novel STATCOM controller for reactive power compensation in distribution networks with dispersed renewable wind energy**
Sharaf A. M., Wang W., ALTAŞ İ. H.
20th Annual Canadian Conference on Electrical and Computer Engineering, Vancouver, Canada, 22 - 26 April 2007, pp.1582-1585
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- CVI. **An efficient tri-loop controller for photovoltaic powered four-wheel electric vehicle**
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- CVII. **Fuzzy Control of a Bus Suspension System 5th Int Symp on Intelligent Manufacturing Systems**
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- CXII. **A fuzzy logic controlled tracking system for moving targets**
Altas I.
1997 IEEE International Symposium on Intelligent Control, İstanbul, Turkey, 16 - 18 July 1997, pp.43-48

- CXIII. **A reduced order rotor time constant and flux estimator for vector controlled induction motor**
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8th Mediterranean Electrotechnical Conference on Industrial Applications in Power Systems, Computer Science and Telecommunications (Melecon 96), Bari, Italy, 13 - 16 May 1996, pp.274-277
- CXIV. **A NOVEL FUZZY-LOGIC CONTROLLER FOR MAXIMUM POWER EXTRACTION FROM A PV ARRAY DRIVING A 3-PHASE INDUCTION-MOTOR**
ALTAS I., SHARAF A.
7th Mediterranean Electrotechnical Conference (MeleCON 94), Antalya, Turkey, 12 - 14 April 1994, pp.853-856
- CXV. **A Solar Powered Permanent Magnet DC Motor Drive Scheme**
ALTAŞ İ. H., SHARAF A. M.
17th Annual Conference of the Solar Energy Society of Canada Inc., Toronto, Canada, 21 - 26 June 1991, pp.65-70

Other Publications

- I. **Elektrik ve Kontrol Alanı Laboratuvar Deneyleri**
Akpınar S., Altaş İ. H., OKUMUŞ H. İ.
Lecture Note, pp.25, 2003

Supported Projects

- TURHAL M., ÇUVALCI H., ALTAŞ İ. H., OKUMUŞ H. İ., TÜRK K., YAZGAN A., ÜZÜM A., Project Supported by Higher Education Institutions, Metal ve metal oksit ince film yapılarının yüksek kalitede üretimi ve geliştirilmesi, 2021 - Continues
- AYDEMİR Ö., ALTAŞ İ. H., TUBITAK Project, Paralel Mekanizmalı Bir Rehabilitasyon Robotunun Tasarımı ve İnsan-Makine Etkileşimi Denetimi, 2014 - Continues
- ALTAŞ İ. H., DANAYİYEN Y., TUBITAK Project, Belirsizlik İçeren Kesintisiz Güç Kaynaklarının Model Öngörülmesi Kontrolü, Continues
- Altaş İ. H., Ayas M. Ş., Baysal Y. A., Danayiyen Y., Özgenç B., TUBITAK Project, Grid/Load Integration of Photovoltaic Systems with shadow effect for Energy Continuity, 2023 - 2026
- ALTAŞ İ. H., ŞAHİN E., Project Supported by Higher Education Institutions, Limana vuran deniz dalgasından elektrik üreten yeni bir sistem, 2019 - 2020
- Altaş İ. H., Danayiyen Y., TUBITAK Project, Belirsizlik İçeren Kesintisiz Güç Kaynaklarında Model Öngörülmesi Kontrol Uygulamaları, 2019 - 2020
- ALTAŞ İ. H., KAYIKÇIOĞLU T., ÇAVDAR İ. H., ÖZKOP E., SEVİM Y., ÇAKIR O., HACIOĞLU G., YAZGAN A., KAYA H., NUROĞLU F. M., et al., Project Supported by Higher Education Institutions, ElektrikElektronik Mühendisliği Bölümü Lisans Laboratuvarları Altyapısının İyileştirilmesi, 2016 - 2017
- ALTAŞ İ. H., ŞAHİN E., AYAS M. Ş., Project Supported by Higher Education Institutions, Dalga Enerji Sistemlerinde Elektrik Gücü Üzerindeki Düzensiz Dalga Etkilerinin Akıllı Kompanzasyon Yöntemleriyle Giderilmesi, 2014 - 2016
- AYAS M. Ş., ALTAŞ İ. H., AKSOY A., Industrial Thesis Project, Göz Kamaştırmayan Araç Farı Projesi, 2011 - 2012
- ALTAŞ İ. H., Project Supported by Higher Education Institutions, Fv/Rüzgar Ve Yakıt Pillerinden Oluşan Birleşik Elektrik Enerjisi Üretim Sistemi İçin Yüksek Güç Kalitesi Sağlayan Bir Tasarım, 2009 - 2011
- ALTAŞ İ. H., Project Supported by Higher Education Institutions, Doğu Karadeniz Bölgesinde Dalda Enerjisinden Enerji Dönüşüm Sisteminin Araştırılması, 2009 - 2011

Activities in Scientific Journals

- Journal of Wind Energy, Editor, 2012 - Continues
Special Issue of International Journal of Photoenergy, Special Issue Editor, 2013 - 2014

International Journal of Reasoning-based Intelligent Systems, Inderscience Publishers, Editor, 2012 - 2014
ASYU 2012 Sempozyum Kitabı, First Editor, 2012 - 2012
INISTA 2012 Sempozyum Kitabı, First Editor, 2012 - 2012
INISTA 2009 Sempozyum Kitabı, First Editor, 2009 - 2009
Turkish Journal Of Electrical Engineering & Computer Sciences, Editor, 2003 - 2004

Memberships / Tasks in Scientific Organizations

MÜDEK – Mühendislik Eğitim Programları Değerlendirme ve Akreditasyon Derneği, Member, 2013 - Continues
IEEE Senior Member, Member, 2007 - Continues
Technical Committee Member of Power Electronics in Renewable Energy and Distributed Generation systems of the IEEE Power Electronics Society, Member, 2007 - Continues
IEEE Working Group on "Dynamic Performance and Modeling of HVDC Systems and Power Electronics for Transmission Systems, Member, 2006 - Continues
IEEE Systems Man and Cybernetics Society, Member, 1991 - Continues
IEEE Power Electronics Society, Member, 1991 - Continues
IEEE Computational Intelligence Society, Member, 1991 - Continues
IEEE Control Systems Society, Member, 1991 - Continues
IEEE Industrial Electronics Society, Member, 1991 - Continues
IEEE - The Institute of Electrical and Electronics Engineers, Member, 1990 - Continues
EMO - TMMOB Elektrik Mühendisleri Odası, Member, 1985 - Continues
Elektrik Mühendisleri Odası Trabzon Şubesi, Vice President, 1998 - 2009

Scientific Refereeing

IEEE ECCE 2015, Other journals, September 2015
INISTA 2015, Other journals, September 2015
ASYU 2014, Other Journals, September 2014
TUBITAK Project, June 2014
TUBITAK Project, April 2014
TUBITAK Project, January 2014
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Elektrik Mühendisleri Odası Ulusal Kongreleri (Bazıları), Other Journals, September 2013
Scientific Research and Essays, SCI Journal, September 2013
TUBITAK Project, May 2013
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ELECO Sempozyumları, Other journals, December 2012
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TUBITAK Project, July 2012
ASYU 2012, Other Journals, June 2012
INISTA 2012, Other journals, June 2012
International Journal of Adaptive Control and Signal Processing , SCI Journal, April 2012
TUBITAK Project, October 2011
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Energy and Buildings, SCI Journal, March 2011
TUBITAK Project, January 2011
ASYU 2010, Other Journals, June 2010
INISTA 2009, Other journals, July 2009
2008 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2008), Other journals, August 2008
ASYU 2008, Other Journals, June 2008
Gazi University Journal of Science, SCI Journal, April 2008
International Electric Machines And Drives Conference (IEMDC), Other journals, August 2007
5th International Conference on Electrical and Electronics Engineering, Other journals, July 2007
International Conference on Intelligent Computing, ICIC, Other journals, June 2006
ASYU 2006, Other Journals, June 2006
Turkish Journal Of Electrical Engineering & Computer Sciences, National Scientific Refreed Journal, October 2005
Gazi Üniversitesi Mühendislik Fakültesi Dergisi, National Scientific Refreed Journal, July 2005
International Journal of Electrical Power & Energy Systems, SCI Journal, September 2004
Fırat Üniversitesi FBE Dergisi, National Scientific Refreed Journal, April 2003
International Journal of Modelling and Simulation, SCI Journal, July 2001
Eropean Transection of Electical Power, SCI Journal, June 2000
T.C. Dumlupınar Üniversitesi Mühendislik Dergisi, National Scientific Refreed Journal, March 1999
Computer Applications in Enegineering Education, SCI Journal, March 1999
2nd International Symposium on Intelligent Manufacturing Systems, Other journals, August 1998
IEEE Transactions on Education, SCI Journal, July 1998
IEEE Transactions on Power Delivery, SCI Journal, June 1998
IEEE Transactions On Idustrial Electronics , SCI Journal, April 1998
IEEE Transactions on Systems, Man, and Cybernetics: Part C Applications and Reviews, SCI Journal, March 1997
IEEE Transactions On Aerospace And Electronic Systems, SCI Journal, April 1996
International Journal of Electronics, SCI Journal, August 1995
Computers and Electrical Engineering - An International Journal, SCI Journal, May 1995

Scientific Research / Working Group Memberships

Eğitim Komisyonu, EMO - Elektrik Mühendisleri Odası, Turkey, www.emo.org.tr, 2013 - Continues
Technical Committee Member of Power Electronics in Renewable Energy and Distributed Generation systems of the IEEE Power Electronics Society, IEEE - The Institute of Electrical and Electronics Engineers, United States Of America, www.ieee.org, 2007 - Continues
IEEE Working Group on "Dynamic Performance and Modeling of HVDC Systems and Power Electronics for Transmission Systems, IEEE - The Institute of Electrical and Electronics Engineers, Turkey, www.ieee.org, 2006 - Continues
Kamu - Üniversite - İşbirliği Çalışma Grubu, Bilim, Sanayi ve Teknoloji Bakanlığı, Turkey, www.sanayi.gov.tr, 2014 - 2015

Metrics

Publication: 188
Citation (WoS): 702
Citation (Scopus): 987
H-Index (WoS): 14
H-Index (Scopus): 15

Congress and Symposium Activities

IEEE Energy Conversion Congress and Exposition (ECCE), Attendee, Montréal, Canada, 2015

16th International Power Electronics and Motion Control Conference and Exposition, PEMC 2014, Attendee, Antalya, Turkey, 2014

INISTA - International Symposium on Innovations in Intelligent Systems and Applications, Sempozyum Organizasyon Komitesi Başkanlığı, Attendee, Turkey, 2012

ASYU 2012, Akıllı Sistemlerde Yenilikler ve Uygulamaları Sempozyumu, Sempozyum Organizasyon Komitesi Başkanlığı, Attendee, Turkey, 2012

International Symposium on Innovations in Intelligent Systems and Applications, INISTA - 2011, Attendee, İstanbul, Turkey, 2011

6th International Conference on Electrical and Electronics Engineering, ELECO 2009, Attendee, Bursa, Turkey, 2009

INISTA - International Symposium on Innovations in Intelligent Systems and Applications, Attendee, Turkey, 2009

the 5th International Conference on Electrical and Electronics Engineering, Attendee, Bursa, Turkey, 2008

Otomatik Kontrol Ulusal Toplantısı (TOK 2008), Attendee, İstanbul, Turkey, 2008

Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, ELECO2008, Attendee, Bursa, Turkey, 2008

ASYU 2006 Akıllı Sistemlerde Yenilikler Ve Uygulamaları Sempozyumu, Attendee, Süleyman Demirel Üniversitesi, Isparta, Turkey, 2008

The 12th International Middle East Power Systems Conference, MEPCON'2008, Attendee, Aswan, Egypt, 2008

the Fifth International Conference on Industrial Automation, École de technologie supérieure (Université du Québec), Montreal, Quebec, Canada, Attendee, École de technologie supérieure (Université du Québec), Montreal, Quebec, Canada, 2007

the 13th International Conference on Emerging Nuclear Energy Systems (ICENES2007), Attendee, İstanbul, Turkey, 2007

5th INTERNATIONAL Conference on Electrical And Electronics Engineering, Attendee, Bursa, Turkey, 2007

the International Conference on Clean Electrical Power, ICCEP'0, Attendee, Capri, Italy, 2007

AEAS Conference, Attendee, Kahire, Egypt, 2006

Photovoltaic Green Power Schemes Using Fuzzy Logic Controllers, Attendee, University of New Brunswick, Department of Electrical and Computer Engineering, Fredericton, NB, Canada, Turkey, 2006

Photovoltaic Cells: A General Perspective, Attendee, University of New Brunswick, Department of Electrical and Computer Engineering, Fredericton, NB, Canada, Canada, 2006

2006 IEEE Power Engineering Society General Meeting, Attendee, Montreal, Canada, 2006

ASYU 2006 Akıllı Sistemlerde Yenilikler Ve Uygulamaları Sempozyumu, Attendee, Yıldız Teknik Üniversitesi, İstanbul, Turkey, 2006

Mathematical Methods in Engineering, International Symposium, MME06, Attendee, Çankaya Üniversitesi, Ankara, Turkey, 2006

ELECU'2004, Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu, Attendee, Bursa, Turkey, 2004

ASYU 2004 Akıllı Sistemlerde Yenilikler Ve Uygulamaları Sempozyumu, Attendee, Yıldız Teknik Üniversitesi, İstanbul, Turkey, 2004

Elektrik Güç Sistemlerinde Akıllı Uygulamalara Doğru, Attendee, KTÜ Elektrik - Elektronik Mühendisliği Böl., Turkey, 2003

[2]. Ülkemizde Elektrik Enerjisi: Üretimden Tüketime, Attendee, KTÜ Elektrik - Elektronik Mühendisliği Böl., Turkey, 2002

Ülkemizin Enerji Sorunları ve Çözüm Önerileri Konferansı, Attendee, Hamamizade İhsan Bey Kültür Merkezi, Trabzon, Turkey, 2000

Elektrik-Elektronik-Bilgisayar Mühendisliği 8. Ulusal Kongresi, Attendee, Gaziantep, Turkey, 1999

Elektrik-Elektronik-Bilgisayar Mühendisliği 8. Ulusal Kongresi, Attendee, Gaziantep, Turkey, 1999

International Conference on Electrical Machines- ICEM'98, Attendee, İstanbul, Turkey, 1998

2nd International Symposium on Intelligent Manufacturing Systems, Attendee, Sakarya Üniversitesi, Turkey, 1998

2nd International Symposium on Intelligent Manufacturing Systems, Attendee, Sakarya Üniversitesi, Adapazarı, Turkey, 1998

Elektrik Elektronik Bilgisayar Mühendisliği 7. Ulusal Kongresi, Attendee, Orta Doğu Teknik Üniversitesi, Ankara, Turkey, 1997

The proceedings of the 3rd International Mechatronic Design and Modeling Workshop, Attendee, ODTÜ, Ankara, Turkey, 1997

12th IEEE International Symposium on Intelligent Control, ISIC'97, Attendee, İstanbul, Turkey, 1997

Proceedings of the 1st Symposium on Mathematical & Computational Applications, Attendee, Manisa, Turkey, 1996
GAP I. Mühendislik Kongresi, Attendee, Harran Üniversitesi, Urfa, Turkey, 1996
2. International Mechatronic Design and Modeling Workshop, Attendee, ODTU, Ankara, Turkey, 1995
2. Endüstriyel Otomasyon'95 Sempozyumu, Attendee, Mecidiyeköy, İstanbul, Turkey, 1995
7th Mediterranean Electrotechnical Conference, Attendee, Antalya, Türkiye, Turkey, 1994
The proceedings of The Canadian Conference on Electrical and Computer Engineering, Attendee, Toronto, Ontario, Canada, Canada, 1992
The proceedings of The Canadian Conference on Electrical and Computer Engineering, Attendee, Toronto, Ontario, Canada, Canada, 1992
The proceedings of The Canadian Conference on Electrical and Computer Engineering, Attendee, Quebec City, Quebec, Canada, Canada, 1991
BILCON'91, Attendee, Bilkent Üniversitesi, Ankara, Turkey, 1991
The Proceedings of the 17th Annual Conference of the Solar Energy Society of Canada Inc, Attendee, Toronto, Ontario, Kanada, Canada, 1991
The Proceedings of 22nd Southeastern Symposium on Systems Theory, Attendee, Cookeville, Tennessee, United States Of America, 1990
Ülkemizin Kalkınmasında Mühendisliğin Rolü Sempozyumu, Attendee, Yıldız Üniversitesi, İstanbul, Turkey, 1988
GAP II. Mühendislik Kongresi, Attendee, Harran Üniversitesi, Şanlı Urfa, Turkey, 1988

Scholarships

TÜBİTAK Doktora Sonrası Yurt Dışı Burs Desteği, TUBITAK, 2007 - Continues

Awards

ALTAŞ İ. H., IEEE Senyör Üye, IEEE, The Institute of Electrical and Electronics Engineers, February 2007
ALTAŞ İ. H., 1997-1998 Öğretim Yılı KTÜ Öğretim Elemanları Performans Değerlendirmesi Mühendislik Alanı Birincilik Ödülü, Karadeniz Teknik Üniversitesi, September 1998

Non Academic Experience

Non-profit Organisation, Emo - Elektrik Mühendisleri Odası
Non-profit Organisation, Elektrik Mühendisleri Odası Trabzon Şubesi