

## Prof. İSMAİL HAKKI ALTAŞ

### Personal Information

Office Phone: [+90 462 377](tel:+90462377) Extension: 2906

Office Phone: [+90 462 377](tel:+90462377) Extension: 2971

Fax Phone: [+90 462 325 7405](tel:+904623257405)

Email: [ihaltas@ktu.edu.tr](mailto:ihaltas@ktu.edu.tr)

Web: <https://avesis.ktu.edu.tr//ihaltas>

Address: Karadeniz Teknik Üniversitesi Elektrik-Elektronik Müh. Böl. 61080 Trabzon

### 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.Özkoç(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 Uygulaması, 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 İ.  
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 İ. 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**  
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Danayiyen Y., Altaş İ. H.

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- XXXIV. **Dalga/Ultra Kondansatör Enerji Sistemi için Bir DA-DA Artıran Çeviricinin Bulanık Mantık ile Denetimi**  
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- XXXVI. **Design and Implementation of a Smart STATCOM in Small Scale Wind Turbines**  
YANMAZ K., MENGİ O. Ö., ALTAŞ İ. H.

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BAYSAL Y. A., ALTAŞ İ. H.  
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Cakmak R., ALTAŞ İ. H.  
4th International Istanbul Smart Grid Congress and Fair (ICSG), İstanbul, Turkey, 20 - 21 April 2016, pp.56-59
- XL. **Solar Energy Potential of Eastern Black Sea Region of Turkey: A Case Study for Trabzon Province**  
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- XLI. **A Redundantly Actuated Ankle Rehabilitation Robot and Its Control Strategies**  
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AYAS M. Ş., ALTAŞ İ. H.  
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- XLIX. **An Off-Grid PV/SC Green Energy Production System**  
Mengi O. O., ALTAŞ İ. H.  
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- LII. Laguerre Fonksiyonları Kullanarak DA Motor Hızının Sürekli Zamanlı Model Öngörülmesi Kontrolü**  
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- LIII. A PSO Optimized Fractional-Order PID Controller Design for a PV Array with Non-inverting Buck-Boost Converter**  
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16th International Power Electronics and Motion Control Conference and Exposition (PEMC), Antalya, Turkey, 21 - 24 September 2014, pp.477-481
- LVIII. Design of a fuzzy logic controller for a 2-DOF robot manipulator**  
AYAS M. Ş., DANAYİYEN Y., ALTAŞ İ. H.  
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- LIX. Dalga Enerji Sisteminden Beslenen Bir DA Motorunun Hız Kontrolü İçin Denetleyici Parametrelerinin PSO İle Optimizasyonu**  
ŞAHİN E., ÖZKOP E., ALTAŞ İ. H.  
Otomatik Kontrol Türk Milli Komitesi Ulusal Toplantısı (TOK), Malatya, Turkey, 26 - 28 September 2013, pp.483-488
- LX. Dalga Enerji Sisteminden Beslenen bir DA Motorunun Hız Kontrolü için Denetleyici Parametrelerinin PSO ile Optimizasyonu**  
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ALTAŞ İ. H., Mengi O. O.  
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Cakmak R., ALTAŞ İ. H.  
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- LXIX. **Fırçasız Doğru Akım Motorunun Oransal İntegral ve Bulanık Mantık Denetleyicilerle Hız Kontrolü Karşılaştırılması**  
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- LXX. **Design Of A Fuzzy Logic Controller For Light Tracking Servo Systems**  
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- LXXI. **Design and Analysis of Fuzzy Controller for a Single Holding Tank**  
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- LXXII. **A Novel Switched Power Filter-Green Plug (SPF-GP) Fuzzy Logic Controller for Photovoltaic-Battery Renewable Energy System**  
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- LXXXII. **Hybrid Green Micro-cogeneration Using Common Dc Bus Hybrid Scheme**  
Sharaf A. M., Ammar M., ALTAŞ İ. H.  
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- LXXXIII. **A NOVEL FUZZY LOGIC TANSIGMOID CONTROLLER FOR WAVE ENERGY CONVERTER-GRID INTERFACE DC ENERGY UTILIZATION FARM**  
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- LXXXV. **Ayrık Çift Tekerlekten Tahrikli Elektrikli Araçlar için Bulanık Mantık Denetimli Elektronik Diferansiyel Sistemi**  
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- XCV. **Bulanık Mantık Denetleyici ile Aktif Otomobil Süspansiyon Denetimi**  
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- XCVI. **Dynamic Voltage Stabilization of Stand Alone Wind Energy Schemes**  
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- XCVII. **A novel GUI modeled fuzzy logic controller for a solar powered energy utilization scheme**  
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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**  
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- CI. **A novel photovoltaic on line search algorithm for maximum energy utilization**  
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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**  
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- CXII. **A fuzzy logic controlled tracking system for moving targets**  
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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
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- 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 Öngörülü 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 Öngörülü 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  
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Scientific Research and Essays, SCI Journal, September 2013  
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ASYU 2010, Other Journals, June 2010  
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2008 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2008), Other journals, August 2008  
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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](http://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](http://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](http://www.ieee.org), 2006 - Continues  
Kamu - Üniversite - İşbirliği Çalışma Grubu, Bilim, Sanayi ve Teknoloji Bakanlığı, Turkey, [www.sanayi.gov.tr](http://www.sanayi.gov.tr), 2014 - 2015

## **Metrics**

Publication: 188  
Citation (WoS): 681  
Citation (Scopus): 963  
H-Index (WoS): 13  
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