

## Prof. Ömer Usta

### Personal Information

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### International Researcher IDs

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Yoksis Researcher ID: 11487

### Biography

**Dr. Omer Usta** received his BEng and MSc in Electrical Engineering from Istanbul Technical University in 1984 and 1988 respectively, and received his PhD in Electronics and Electrical Engineering from the University of Bath in 1993. He re-joined ITU in 1993 where he is presently a Professor of Power System Protection & Automation. He has been responsible for developing and running highly successful courses on Smart Grid such as Computer Networks for Power Systems, Power System Control and Communications, Power Transmission Systems, Power Generation, and Computer Relaying for Power Systems.

Dr. Usta's research interests include computer and communications applied to Smart Grid metering, protection, control and operation. He has published numerous conference and journal papers. He is currently an investigator and primary consultant on a number of research projects, including Design of Intelligent Electronic Devices, Remote Reading & Monitoring Systems, and Computer Networks for Power Systems funded by TÜBİTAK, ITU and Turkish Industry.

**Dr. Usta was the Head of the Electrical Engineering Department** between 2007 and 2010, and the **Dean of Electrical and Electronic Engineering Faculty** of Istanbul Technical University between 2010 and 2013. He was also the General Chair of IEEE PES ISGT Europe 2014 held in Istanbul. He is currently IEEE PES Turkey Chapter Chair. He is the ABET Coordinator of Electrical Engineering Program which was fully accredited by the ABET in 2011. He is married and has two sons.

### Education Information

Doctorate, The University of Bath, Elektronik Ve Elektrik Mühendisliği, Electric Ve Applied Electronic, United Kingdom 1989 - 1993

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği (YI) (Tezli), Turkey 1985 - 1988

Undergraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 1980 - 1984

### Certificates, Courses and Trainings

Foreign Language, Advanced English, English Language Center, 1988

## Dissertations

Doctorate, A power based digital algorithm for the protection of embedded generators, The University Of Bath, Elektronik Ve Elektrik Mühendisliği, 1993

Postgraduate, Büyük Boyutlu Şebekelerin Analizi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği (YI) (Tezli), 1988

## Research Areas

Computer Sciences, Computer Networks, Electrical and Electronics Engineering, Energy, Power System Analysis, Generating Stations and Plants, Electric Power Transmission, Distribution and Protection, Protection Systems, Engineering and Technology

## Academic Titles / Tasks

Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2000 - Continues

Associate Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 1994 - 2000

Assistant Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 1993 - 1994

## Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Rektörlük, 2015 - 2017

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, 2010 - 2013

Üniversitelerarası Kurul, Uak, 2009 - 2012

İstanbul Teknik Üniversitesi, Rektörlük, 2006 - 2012

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, 2007 - 2010

Fakülte Kurulu Üyesi, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 1998 - 2001

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, 1997 - 2001

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi İ, Elektrik Mühendisliği, 1995 - 1997

## Courses

ELK415E DIGITAL PROTECTION AND SIGNALLING, Undergraduate, 2016 - 2017

ELK421E GENERATION OF ELECTRICAL ENERGY, Undergraduate, 2016 - 2017

ELK508E COMPUTER RELAYING, Undergraduate, 2016 - 2017

ELK322E POWER TRANSMISSION SYSTEMS, Undergraduate, 2016 - 2017

ELK455E Computer Networks for Power Systems, Undergraduate, 2016 - 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Guest Editorial: Challenges and New Solutions for Enhancing Ancillary Services and Grid Resiliency in Low Inertia Power Systems**  
Azizipanah-Abarghooee R., Terzija V., Malekpour M., Arroyo Sanchez J. M., Blaabjerg F., Bi T., Catalao J. P. S., Dehghanian P., Gharehpetian G. B., Golestaneh F., et al.  
IET GENERATION TRANSMISSION & DISTRIBUTION, vol.14, no.22, pp.4975-4977, 2020 (SCI-Expanded)
- II. **A New Algorithm for Detecting Failure to Clear Mode of Circuit Breakers Using Fundamental Frequency Component of Voltage Signals**

Feizifar B., Mueller Z., Usta Ö.

IEEE TRANSACTIONS ON POWER DELIVERY, vol.35, no.2, pp.794-801, 2020 (SCI-Expanded)

- III. **Failure Detection of On-Load Tap-Changers Using a New Power-Based Algorithm**  
Feizifar B., Usta Ö.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.44, no.8, pp.6967-6976, 2019 (SCI-Expanded)
- IV. **A Novel Arcing Power-Based Algorithm for Condition Monitoring of Electrical Wear of Circuit Breaker Contacts**  
Feizifar B., Usta Ö.  
IEEE TRANSACTIONS ON POWER DELIVERY, vol.34, no.3, pp.1060-1068, 2019 (SCI-Expanded)
- V. **A new arc-based model and condition monitoring algorithm for on-load tap-changers**  
Feizifar B., Usta Ö.  
ELECTRIC POWER SYSTEMS RESEARCH, vol.167, pp.58-70, 2019 (SCI-Expanded)
- VI. **A new failure protection algorithm for circuit breakers using the power loss of switching arc incidents**  
Feizifar B., Usta Ö.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.3, pp.1982-1997, 2019 (SCI-Expanded)
- VII. **Integration of a SMES-Battery-Based Hybrid Energy Storage System into Microgrids**  
Cansız A., FAYDACI C., QURESHI M. T., Usta Ö., MCGUINNESS D. T.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.31, no.5, pp.1449-1457, 2018 (SCI-Expanded)
- VIII. **Impact of Distributed Generation on Transient-Based Fault Location Techniques in Distribution Networks**  
Feizifar B., Usta Ö., HAGHIFAM M. R.  
IEEE TRANSACTIONS ON ELECTRICAL AND ELECTRONIC ENGINEERING, vol.10, no.3, pp.242-248, 2015 (SCI-Expanded)
- IX. **Harmonic source location and meter placement optimization by impedance network approach**  
DAĞ O., UÇAK C., Usta Ö.  
Electrical Engineering, vol.94, no.1, pp.1-10, 2012 (SCI-Expanded)
- X. **A novel three phase transformer hysteresis model in MATLAB TM Simulink**  
ÖZGÖNENEL O., GÜNEY K. R. İ., Usta Ö., DİRİK H.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER, vol.20, no.4, pp.479-492, 2012 (SSCI)
- XI. **PCA Based Protection Algorithm for Transformer Internal Faults**  
KILIÇ E., ÖZGÖNENEL O., Usta Ö., David T.  
Turkish Journal of Electrical Engineering and Computer Sciences, vol.17, no.2, pp.125-142, 2009 (SCI-Expanded)
- XII. **A New Relaying Algorithm to Detect Loss of Excitation of Synchronous**  
Usta Ö., BAYRAK M., Mahmud H M., Miles R.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.15, no.3, pp.339-349, 2007 (SCI-Expanded)
- XIII. **Impact of Distributed Generators on the Oscillatory Stability of Interconnected Power Systems**  
Genç V. M. İ., Usta Ö.  
Turkish Journal Of Electrical Engineering And Computer Sciences, vol.3, no.1, pp.149-160, 2005 (SCI-Expanded)
- XIV. **A New Digital Relay for Generator Protection Against Asymmetrical Faults**  
Usta Ö., BAYRAK M., MA R.  
IEEE Trans. on Power Delivery, vol.17, no.1, pp.54-59, 2002 (SCI-Expanded)
- XV. **A New Power Based Digital Algorithm for Generator Protection**  
Usta Ö., BAYRAK M.  
IEEE Power Engineering Review (Power Delivery), vol.20, no.2, pp.49-52, 2000 (SCI-Expanded)
- XVI. **A New Microprocessor Based Islanding Protection Algorithm for Dispersed Storage and Generation Units**  
Jı B., Usta Ö.  
Ieee Transactions On Power Delivery, vol.10, no.3, pp.1249-1254, 1995 (SCI-Expanded)

- XVII. POWER BASED ALGORITHM TO PROVIDE LOSS OF GRID PROTECTION FOR EMBEDDED GENERATION**  
 Redfern M., Usta O., Fielding G., Walker E.  
 IEE PROCEEDINGS-GENERATION TRANSMISSION AND DISTRIBUTION, vol.141, no.6, pp.640-646, 1994 (SCI-Expanded)
- XVIII. PROTECTION AGAINST LOSS OF UTILITY GRID SUPPLY FOR A DISPERSED STORAGE AND GENERATION UNIT**  
 REDFERN M., USTA O., FIELDING G.  
 IEEE TRANSACTIONS ON POWER DELIVERY, vol.8, no.3, pp.948-954, 1993 (SCI-Expanded)

## Articles Published in Other Journals

- I. **İTÜ'den Mühendislik Tamamlama Programları ve Teknoloji Fakülteleri Üzerine Değerlendirme**  
 Usta Ö.  
 Elektrik Mühendisliği Bilimsel dergisi, no.448, pp.29-31, 2013 (Peer-Reviewed Journal)
- II. **Impacts of Distributed Generators on the Oscillatory Stability Impacts of Distributed Generators on the Oscillatory Stability of Interconnected Power Systems**  
 Genç V. M. İ., Usta Ö.  
 TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.13, no.1, pp.149-161, 2005 (Scopus)
- III. **Impacts of Distributed Generators on the Oscillatory Stability of Interconnected Power Systems**  
 GENÇ V. M. İ., USTA Ö.  
 Turkish Journal Of Electrical Engineering And Computer Sciences, vol.13, no.1, pp.149-161, 2005 (Scopus)
- IV. **Application of Diakoptics to Power System Analysis**  
 Usta Ö., Kayıpmaz A., Gül Ö.  
 Bulletin of the Technical University of Istanbul, vol.49, pp.389-4001, 1996 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Microgrid Protection and Automation**  
 Usta Ö.  
 in: Microgrid Architectures, Control and Protection Methods Chapter: Microgrid protection and automation, Mahdavi Tabatabaei Naser, Kabalci Ersan, Bizon Nicu, Editor, Springer-Verlag, Zürich, pp.631-655, 2020

## Refereed Congress / Symposium Publications in Proceedings

- I. **Innovative Adaptive Intelligent Scheme for Voltage-Frequency Control in Inverter-based Microgrid**  
 Karkevandi A. E., Daryani M., USTA Ö.  
 2019 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), Bucharest, Romania, Romania, 29 September - 02 October 2019
- II. **A Hybrid Approach for Microgrid Protection System Based on Neural Network and Fuzzy Logic**  
 Daryani M., Karkevandi A. E., USTA Ö.  
 2019 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), Bucharest, Romania, 29 September - 02 October 2019
- III. **Harmonics Content and Voltage Signal Based Hybrid Backup Scheme for Protection of Microgrid Under Different Contingencies**  
 Daryani M., Karkevandi A. E., USTA Ö.  
 2019 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), Bucharest, Romania, 29 September - 02 October 2019

- IV. **A Collective Condition Monitoring Algorithm for On-Load Tap-Changers**  
Feizifar B., Usta Ö.  
2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe (EEEIC / ICPS Europe), Genova, Italy, 11 - 14 June 2019
- V. **Model Predictive Controller As a Robust Algorithm for Maximum Power Point Tracking**  
Tasooji T. K., Mustafazadeh A., Usta Ö.  
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November 2018 - 03 January 2019, pp.175-179
- VI. **An Adaptive Setting Procedure for Multi-Source Microgrid Protection**  
Usta Ö., Kara B., Uzun M., Gocer C.  
11th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2019
- VII. **A New Transfer Matrix-Based Approach for Protection and Faulted Section Identification of Hybrid Power Transmission Lines**  
AsghariGovar S., Usta Ö.  
11th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2019, pp.49-53
- VIII. **Multi-Agent Approach to Wide-Area Integrated Adaptive Protection System of Microgrid for Pre- and Post-Contingency Conditions**  
Daryani M. J., Karkevandi A. E., Usta Ö.  
IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), Sarajevo, Bosnia And Herzegovina, 21 - 25 October 2018
- IX. **ANFIS-Based Intelligent PI Controller for Secondary Frequency and Voltage Control of Microgrid**  
Karkevandi A. E., Daryani M. J., Usta Ö.  
IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), Sarajevo, Bosnia And Herzegovina, 21 - 25 October 2018
- X. **Voltage Control of PV-FC-Battery-Wind Turbine for Stand-Alone Hybrid System Based on Fuzzy Logic Controller**  
Mustafazadeh A., Metehan S., Tasooji T. K., Usta Ö.  
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November 2017 - 03 January 2018, vol.1, pp.170-174
- XI. **Elektrik Dağıtım şebekelerinin Korunmasında yeni Gelişmeler**  
Usta Ö., Kara B., Özveren F., Göçer C., Özgür M.  
EEMKON 2017, İstanbul, Turkey, 16 - 18 November 2017, pp.9-14
- XII. **Condition monitoring of circuit breakers: Current status and future trends**  
Feizifar B., Usta Ö.  
17th IEEE International Conference on Environment and Electrical Engineering and 2017 1st IEEE Industrial and Commercial Power Systems Europe, EEEIC / I and CPS Europe 2017, Milan, Italy, 6 - 09 June 2017
- XIII. **Condition monitoring of circuit breakers using arc models and failure detection algorithm**  
Feizifar B., Usta Ö.  
5th International Istanbul Smart Grids and Cities Congress and Fair, ICSG 2017, İstanbul, Turkey, 19 - 21 April 2017, pp.32-36
- XIV. **Aktif Dağıtım Şebekelerinin Diferansiyel Röle ile Korunmas Protection of Active Distribution Systems Using Differential Relay B**  
Kara B., Özveren F., Usta Ö.  
Electrical, Electronics and Biomedical Engineering (ELECO), 2016, Bursa, Turkey, 1 - 03 December 2016, pp.53-57
- XV. **Protection of Active Distribution Systems Using Differential Relay**  
Kara B., Özveren F., Usta Ö.  
National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 1 - 03 December 2016, pp.53-57
- XVI. **Aktif Dağıtım Şebekelerinin Diferansiyel Röle ile korunması**

Kara B., USTA Ö., ÖZVEREN F.

Elektrik-Elektronik-Biometical Mühendisliği Konferansı 2016., Bursa, Turkey, 1 - 03 December 2016

- XVII. **A Comparative Case Study of Integration of a SMES Battery based Hybrid Energy Storage System into Micro Grids**  
CANSIZ A., Faydacı Ç., Qureshi T., USTA Ö.  
International Conference Superconductivity and Magnetism, 26 July - 01 August 2016
- XVIII. **Managing Microgrid Power Generation by Using Back To Back Voltage Source Convertor**  
Maleki ., Asgharian V., Khederzadeh M., Usta Ö.  
5th IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe), İstanbul, Turkey, 12 - 15 October 2014, pp.100-106
- XIX. **A new transformer hysteresis model in MATLAB™ Simulink**  
USTA Ö., GÜNEY K. R. İ., ÖZGÖNENEL O., DİRİK H.  
2009 IEEE Bucharest PowerTech, Budapest, Hungary, 28 June - 02 July 2009
- XX. **Embedded Elektrik Üretim Sistemlerinin Anasebeke ile Entegrasyonu**  
Usta Ö., Genç V. M. İ.  
Elektrik-Elektronik Bilgisayar Mühendisliği 11. Ulusal Kongresi, İstanbul, Turkey, 22 - 25 September 2005, pp.367-370
- XXI. **Impacts of Distributed Generators on the Oscillatory Stability of Interconnected Power Systems**  
GENÇ V. M. İ., USTA Ö.  
ELECO 2003 International Conference on Electrical and Electronics Engineering, 3 - 07 December 2003
- XXII. **A novel numeric relay algorithm for extracting negative phase sequence quantities from three-phase measurements**  
Redfern M., Rusek B., Usta Ö.  
IEEE Power-Engineering-Society Summer Meeting, Chicago, United States Of America, 21 - 25 July 2002, vol.1, pp.1073-1077
- XXIII. **A new digital relay to provide protection against unbalanced fault conditions**  
Usta Ö., Bayrak M., Özdemir M.  
7th International Conference on Developments in Power System Protection, Chicago, Netherlands, 9 - 12 April 2001, vol.479, pp.426-429
- XXIV. **A New Digital Algorithm For Protection Of Synchronous Generators Against Unbalanced Fault Conditions**  
USTA Ö., BAYRAK M.  
Large Engineering System Conference on Power Engineering, Halifax, Canada, 20 - 22 June 1999
- XXV. **Instantaneous power in unbalanced three phase system**  
BAYRAK M., USTA Ö.  
ELECO'xx99. International Conference on Electrical and ..., 1999, Bursa, Turkey, 13 - 16 April 1999, vol.2
- XXVI. **Data communications for power system relaying**  
Usta Ö., Redfern M., Bayrak M.  
9th Mediterranean Electrotechnical Conference (Melecon 98), Tel-Aviv-Yafo, Israel, 18 - 20 May 1998, pp.964-968
- XXVII. **A new loss of grid protection based on power measurements**  
Redfern M., USTA Ö., Barett J.  
IET Development in Power System Protection, Londrina, Brazil, 25 March 1997
- XXVIII. **Analysis of out of phase reclosing required for the protection of dispersed storage and generation units**  
Usta Ö., Redfern M., Tarkan N., Erdoğan Z. M.  
8th Mediterranean Electrotechnical Conference on Industrial Applications in Power Systems, Computer Science and Telecommunications (MELECON 96), Bari, Italy, 12 - 16 May 1996, pp.1090-1094
- XXIX. **DIACOPTICS - A PARALLEL-PROCESSING APPROACH FOR THE ANALYSIS OF LARGE-SCALE POWER-SYSTEMS**  
KAYPMAS A., TOKAD Y., USTA Ö.  
7th Mediterranean Electrotechnical Conference (MeleCON 94), Antalya, Turkey, 12 - 14 April 1994, pp.1069-1072

## Supported Projects

Usta Ö., Project Supported by Higher Education Institutions, Elektrik Güç Sistemlerinde Harmonik Kaynaklarının Yerinin Tespit Edilmesi, 2007 - 2009

Usta Ö., Project Supported by Higher Education Institutions, Elektrik Güç Sistemleri İle Bilgi Alışverişinde Kullanılacak Bilgisayar Destekli Veri Toplama Tasarı, 1997 - 1999

## Activities in Scientific Journals

Iet Generation Transmission & Distribution, Editor, 2019 - Continues

Turkish Journal Of Electrical Engineering And Computer Sciences, Editor, 2019 - Continues

IJTPE Journal, Committee Member, 2017 - Continues

Electric Power System Research , Evaluation Committee Member, 2017 - Continues

## Memberships / Tasks in Scientific Organizations

Institution of Electrical and Electronic Engineering, Member, 2017 - Continues

IEEE, Member, 2008 - Continues

EMO, Member, 1984 - Continues

IEEE PES TR Chapter, Chairman, 2009 - 2016

## Scientific Refereeing

Turkish Journal of Electrical Engineering and Computer science, National Scientific Refreed Journal, December 2017

Arabian Journal for Sience and Engineering, SCI Journal, December 2017

Electric Power system Research, SCI Journal, December 2017

Frontiers in Energy, SCI Journal, November 2017

Arabian Journal for Science and Engineering, SCI Journal, November 2017

Electric Power System Researc, SCI Journal, October 2017

Arabian Journal for Science and Engineering, SCI Journal, October 2017

Arabian Journal for Sience and Engineering, SCI Journal, September 2017

Arabian Journal for Sience and Engineering, SCI Journal, July 2017

Electric Power System Research, SCI Journal, July 2017

Electric Power System Research, SCI Journal, May 2017

Electric Power System Research, SCI Journal, May 2017

Electric Power System Research , SCI Journal, May 2017

Electric Power System Research, SCI Journal, May 2017

Electric Power System Research, SCI Journal, April 2017

IET Generation, Transmission & Distribution, SCI Journal, April 2017

IET Proceeding, Power Generation, Transmission and Distributions, SCI Journal, March 2017

Electric Power System Research, SCI Journal, March 2017

Electric Power System Research, SCI Journal, March 2017

Electric Power System Research, SCI Journal, February 2017

## Scientific Consultations

ENTES Elektronik, Scientific Consultancy, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, Turkey, 2000 - Continues

Makel Elektrik, Scientific Consultancy, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, Turkey, 2005 - 2010

## Tasks In Event Organizations

Usta Ö., IEEE PES ISGT 2014 Istanbul, Scientific Congress, İstanbul, Turkey, Ekim 2014

## Metrics

Publication: 57

Citation (WoS): 194

Citation (Scopus): 283

H-Index (WoS): 4

H-Index (Scopus): 5

## Congress and Symposium Activities

IEEE PES ISGT 2019, Session Moderator, Bucuresti, Romania, 2019

IEEE PES ISGT Europe 2018, Session Moderator, Sarajevo, Bosnia And Herzegovina, 2018

IEEE PES ISGT Europe, 2018, Attendee, Sarajevo, Bosnia And Herzegovina, 2018

IEEE PES ISGT Europe 2018, Session Moderator, Sarajevo, Bosnia And Herzegovina, 2018

EEMKON Elektrik-Elektronik Mühendisliği Konferansı, Attendee, İstanbul, Turkey, 2017

ISCG Istanbul 2017, Session Moderator, İstanbul, Turkey, 2017

ELECO 2016, Session Moderator, Bursa, Turkey, 2016

ELECO -Elektrik-Elektronik Bilgisayar Müh Konferansı, Attendee, Bursa, Turkey, 2016

IEEE PES ISGT Europe 2016, Session Moderator, Ljubljana, Slovenia, 2016

ISCG Istanbul 2016, Session Moderator, İstanbul, Turkey, 2016

EEMKO 2015, Invited Speaker, İstanbul, Turkey, 2015

EEMKO 2015, Session Moderator, İstanbul, Turkey, 2015

ISCG Istanbul 2015, Invited Speaker, İstanbul, Turkey, 2015

ELECO 2014, Session Moderator, Bursa, Turkey, 2014

IEEE ISGT 2014, Attendee, İstanbul, Turkey, 2014

IEEE PES ISGT Europe 2014, Session Moderator, İstanbul, Turkey, 2014

IEEE PES ISGT Europe 2013, Session Moderator, Kobenhavn, Denmark, 2013

TMMO EMO Akıllı Şebekeler Sempozyumu, Attendee, Ankara, Turkey, 2013

IEEE PES ISGT Europe 2012, Session Moderator, Berlin, Germany, 2012

Elektrik-Elektronik Bilgisayar Mühendisliği Kongresi, Attendee, Ankara, Turkey, 2010

Elektrik-Elektronik Bilgisayar Mühendisliği Kongresi, Attendee, Eskişehir, Turkey, 2009

IEEE ISPLC, Attendee, Padova, Italy, 2007

IET-IEEE Development in Power System Protection, Attendee, Amsterdam, Netherlands, 2001

Large Scale Engineering Conference, Attendee, Halifax, Canada, 2000

Elektrik-Elektronik Bilgisayar Mühendisliği Kongresi, Attendee, Gaziantep, Turkey, 1999

Melecon, Attendee, Tel Aviv-Yafo, Israel, 1998

Elektrik-Elektronik Bilgisayar Mühendisliği Kongresi, Attendee, Ankara, Turkey, 1997

IEEE MELECON, Attendee, Bari, Italy, 1996

ELECO 1995, Attendee, Bursa, Turkey, 1995

MELECON, Attendee, Antalya, Turkey, 1994

UPEC 25th Universities Power Engineering Conference, Attendee, Aberdeen, United Kingdom, 1993



UPEC 25th Universities Power Engineering Conference, Attendee, Basildon, United Kingdom, 1992

IEEE PES General Meeting, Attendee, Washington, United States Of America, 1992

IET -IEE Development in Power System Protection, Attendee, Edinburgh, United Kingdom, 1989

## **Awards**

Usta Ö., Notable Services and Contributions towards the Advancement of IEEE and Engineering Professions, IEEE, August 2018

Usta Ö., Chapter Outstanding Engineering Award, IEEE PES, June 2000

## **Non Academic Experience**

ENTES Elektronik

İSKİ

TUBITAK, Istanbul Technical University, Elektrik Mühendisliği

Non-profit Organisation, IEEE

MAKEL ELEKTRİK

THE UNIVERSITY OF BATH