

Prof. Aydođan Özdemir

Personal Information

Office Phone: [+90 212 252 2220](tel:+902122522220)

Fax Phone: [+90 212 285 6700](tel:+902122856700)

Email: ozdemiraydo@itu.edu.tr

Web: <http://akademi.itu.edu.tr/ozdemiraydo/>

Address: İ.T.Ü. Elektrik-Elektronik Fakültesi 34469 Maslak-Istanbul

International Researcher IDs

ScholarID: wnJKqnYAAAAJ

ORCID: 0000-0003-1331-2647

Publons / Web Of Science ResearcherID: A-2223-2016

ScopusID: 7006505111

Yoksis Researcher ID: 9781

Education Information

Doctorate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 1984 - 1990

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği (YI) (Tezli), Turkey 1980 - 1982

Undergraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1975 - 1980

Foreign Languages

English

Dissertations

Doctorate, Approximate Sub-Optimum Techniques for Optimal Power Flow, İstanbul Teknik Üniversitesi, Elektrik Mühendisliği, Elektrik Mühendisliği, 1990

Postgraduate, Darbe Gerilim Bölücülerinin Ölçeklenmesi, İstanbul Teknik Üniversitesi, Elektrik Fakültesi, Elektrik Mühendisliği, 1982

Research Areas

Technical Sciences, Electrical and Electronics Engineering, Energy, Power System Analysis, Electric Power Transmission, Distribution and Protection, Renewable energy, High Voltage Technique

Academic Titles / Tasks

Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2003 - Continues

Associate Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 1994 - 2003

Assistant Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 1991 - 1994

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği, 2011 - 2014

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, 2010 - 2011

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, 1991 - 2001

Rectorate Commissioner, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 1993 - 1997

Advising Theses

Özdemir A., Convolutional neural network based partial discharge pattern classification of medium voltage cable terminations, Postgraduate, H.İBRAHİM(Student), 2020

Özdemir A., YÜKSEK DOĞRU GERİLİM (HVDC) İLETİM HATLARININ KORONA KARAKTERİSTİKLERİ VE ELEKTROMANYETİK ETKİLERİ, Doctorate, A.FONT(Student), 2020

Özdemir A., OPTIMAL DISTRIBUTED GENERATION ALLOCATION AND SIZING IN RADIAL DISTRIBUTION NETWORKS BY CUCKOO SEARCH ALGORITHM, Postgraduate, M.Majidi(Student), 2017

Özdemir A., Elektrik İletim Sistemi Güç Transformatörleri İçin Güvenilirlik Merkezli Donanım Yönetimi Sürecinin Kurulması ve Değerlendirilmesi, Doctorate, A.Sezgin(Student), 2016

Özdemir A., Impacts of Distributed Generation On Distribution System Reliability, Postgraduate, S.Saeedi(Student), 2016

Özdemir A., Bakır Giydirilmiş Alüminyum İletkenli Geçit İzolatörü Geliştirilmesi, Postgraduate, İ.Erden(Student), 2013

Özdemir A., An Automation of High Voltage Impulse Generator, Postgraduate, F.ABDOLALIZADEHGHAREHVERAN(Student), 2013

Özdemir A., Dependent Failures and Failure Propagation in Electric Power Systems, Postgraduate, K.SAEILAILONAHAR(Student), 2013

Özdemir A., Darbe Generatörü Veri Alma ve İşleme Yazılımı, Postgraduate, E.DOKUR(Student), 2013

Özdemir A., Akıllı Yöntem Tabanlı Tekli ve İkili Kısıtlılık Analizi, Doctorate, O.Ceylan(Student), 2012

Özdemir A., Corona Ring Design and Optimization for 380 Kv V-Insulator Strings Used In Turkish National Power Transmission System, Doctorate, S.İLHAN(Student), 2012

Özdemir A., Corona ring design and parameter optimization for 380 kV V-insulator strings used in Turkish national power transmission system, Doctorate, S.İLHAN(Student), 2012

Özdemir A., 380 kV Enerji İletim Sisteminde Hat Parafudr Koruması, Postgraduate, C.Öztürk(Student), 2011

Özdemir A., 154 kv hava hattı silikon kauçuk izolatörde alternatif ve darbe gerilimlerinde elektrik alan dağılımının incelenmesi, Postgraduate, C.Yıldız(Student), 2010

Özdemir A., Yıldırımdan Koruma: Çeşitli Yöntemler, Üstünlükleri Ve Sakıncaları, Postgraduate, Z.Faydalı(Student), 2009

Özdemir A., Elektrik Enerji Sistemlerinde Güvenilirlik Temelli Bakım, Postgraduate, E.Deniz(Student), 2008

Özdemir A., Petkim petrokimya Aliğa tesisi'nin elektrik sisteminin yük akışı ve kısa dere hesapları, Postgraduate, A.Can(Student), 2007

Özdemir A., Genetik algoritmalar ile enerji iletim kayıpları ve saatlik yakıt giderleri optimizasyonu, Postgraduate, S.ŞENEL(Student), 2006

Özdemir A., Katı yalıtkanlardaki elektriksel zorlanmalar ve ömür saptaması, Postgraduate, S.İLHAN(Student), 2004

Özdemir A., Elektrik enerji sistemlerinde güvenilirlik değerlendirmesi için kısıtlılık seçimi, Doctorate, R.Çağlar(Student), 1999

Özdemir A., Distribution System Reliability Assessment: Structural Approach, Postgraduate, F.Mekiç(Student), 1999

Özdemir A., Modeling of Metal Oxide Surge Arresters, Postgraduate, L.Kılıç(Student), 1996

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Batman Üniversitesi, October, 2022
Doctorate, Doctorate, Universiti Teknologi Mara, July, 2016
Associate Professor Exam, Associate Professor Exam, İstanbul Teknik Üniversitesi, April, 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A multi-objective framework for distributed energy resources planning and storage management**
Ahmadi B., CEYLAN O., Özdemir A., Fotuhi-Firuzabad M.
APPLIED ENERGY, vol.314, 2022 (SCI-Expanded)
- II. **An advanced Grey Wolf Optimization Algorithm and its application to planning problem in smart grids**
Ahmadi B., Younesi S., Ceylan O., Özdemir A.
SOFT COMPUTING, vol.26, pp.3789-3808, 2022 (SCI-Expanded)
- III. **Distributed energy resource allocation using multi-objective grasshopper optimization algorithm**
Ahmadi B., Ceylan O., Özdemir A.
ELECTRIC POWER SYSTEMS RESEARCH, vol.201, 2021 (SCI-Expanded)
- IV. **A multi-objective optimization evaluation framework for integration of distributed energy resources**
Ahmadi B., Ceylan O., Özdemir A.
JOURNAL OF ENERGY STORAGE, vol.41, 2021 (SCI-Expanded)
- V. **Workmanship defect classification in medium voltage cable terminations with convolutional neural network**
Üçkol H. İ., İlhan S., Özdemir A.
Electric Power Systems Research, vol.194, 2021 (SCI-Expanded)
- VI. **Comparative Properties of HTV Silicone Rubber for Composite Insulators - ATH and Silica Fillers**
İlhan S., Tuzun D., Ozdemir A.
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol.28, no.2, pp.414-422, 2021 (SCI-Expanded)
- VII. **Development of an innovative grid ancillary service for PV installations: Methodology, communication issues and experimental results**
Tsiakalos A., Tsiamitros D., Tsiakalos A., Stimoniaris D., Ozdemir A., Roumeliotis M., Asimopoulos N.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.44, 2021 (SCI-Expanded)
- VIII. **Simulations and Experimental Studies towards Thermal Performance Improvement of 36 kV Bushings**
İlhan S., Erden I., Özdemir A.
ELECTRIC POWER SYSTEMS RESEARCH, vol.187, 2020 (SCI-Expanded)
- IX. **A gamification platform to foster energy efficiency in office buildings**
Iria J., Fonseca N., Cassola F., Barbosa A., Soares F., Coelho A., Özdemir A.
ENERGY AND BUILDINGS, vol.222, 2020 (SCI-Expanded)
- X. **Reliability improvement of distribution system considering EV parking lots**
Guner S., Özdemir A.
ELECTRIC POWER SYSTEMS RESEARCH, vol.185, 2020 (SCI-Expanded)
- XI. **DC corona characteristics derived from corona cage tests and simulations**
Font A., Solak Y. T., İlhan S., Özdemir A., İSMAİLÖĞLU H., Espino Cortes F.
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol.26, no.6, pp.1867-1875, 2019 (SCI-Expanded)
- XII. **Optimization of Radio Interference Levels for 500 and 600 kV Bipolar HVDC Transmission Lines**
Tejada-Martinez C., Espino-Cortes F. P., İlhan S., Özdemir A.
ENERGIES, vol.12, no.16, 2019 (SCI-Expanded)
- XIII. **Development and Field Demonstration of a Gamified Residential Demand Management Platform Compatible with Smart Meters and Building Automation Systems**

Zehir M. A., Ortac K. B., Gul H., Batman A., Aydin Z., Portela J. C., Soares F. J., Bağrıyanık M., Kucuk U., Özdemir A. ENERGIES, vol.12, no.5, 2019 (SCI-Expanded)

- XIV. **Impacts of microgrids with renewables on secondary distribution networks**
Zehir M. A., BATMAN A., SONMEZ M. A., Font A., TSIAMITROS D., STIMONIARIS D., KOLLATOU T., Bağrıyanık M., Özdemir A., Dialynas E.
APPLIED ENERGY, vol.201, pp.308-319, 2017 (SCI-Expanded)
- XV. **Stochastic energy storage capacity model of EV parking lots**
Guner S., Özdemir A.
IET GENERATION TRANSMISSION & DISTRIBUTION, vol.11, no.7, pp.1754-1761, 2017 (SCI-Expanded)
- XVI. **Demand-side management by integrating bus communication technologies into smart grids**
Stimoniaris D., KOLLATOU T., TSIAMITROS D., ZEHİR M. A., BATMAN A., Bağrıyanık M., Özdemir A., Dialynas E.
ELECTRIC POWER SYSTEMS RESEARCH, vol.136, pp.251-261, 2016 (SCI-Expanded)
- XVII. **Improved transformer maintenance plan for reliability centred asset management of power transmission system**
Koksal A., Özdemir A.
IET GENERATION TRANSMISSION & DISTRIBUTION, vol.10, no.8, pp.1976-1983, 2016 (SCI-Expanded)
- XVIII. **Heuristic methods for postoutage voltage magnitude calculations**
Ceylan O., Özdemir A., Dag H.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.1, pp.105-120, 2016 (SCI-Expanded)
- XIX. **Double branch outage modeling and simulation: Bounded network approach**
Ceylan O., Ozdemir A., Dag H.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.73, pp.369-376, 2015 (SCI-Expanded)
- XX. **Numerical and Experimental Investigation of the Effects of Pollution on Glass Suspension-type Insulators**
İlhan S., Özdemir A., Jayaram S. H., Cherney E. A.
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol.22, no.5, pp.2987-2994, 2015 (SCI-Expanded)
- XXI. **Impacts of Corona Rings on the Insulation Performance of Composite Polymer Insulator Strings**
İlhan S., Özdemir A., Ismailoglu H.
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol.22, no.3, pp.1605-1612, 2015 (SCI-Expanded)
- XXII. **New structural approach for distribution system reliability assessment**
Ozdemir A., Mekic F., Caglar R.
EUROPEAN TRANSACTIONS ON ELECTRICAL POWER, vol.9, no.3, pp.175-181, 1999 (SCI-Expanded)
- XXIII. **APPROXIMATE SUB-OPTIMUM TECHNIQUES FOR OPTIMAL POWER FLOW**
OZDEMİR A.
ELECTRIC MACHINES AND POWER SYSTEMS, vol.21, no.3, pp.267-279, 1993 (SCI-Expanded)

Articles Published in Other Journals

- I. **Far-field prediction for radio-interference produced by fundamental frequency of a DC Corona discharge at a Rod-Plane configuration**
Salazar Hernandez J. C., Miranda R., cortes F. E., ÖZDEMİR A.
IEEE Electromagnetic Compatibility Magazine, vol.9, no.3, pp.37-43, 2020 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **SLP Optimization-Based Voltage Profile Improvement in Unbalanced Distribution Networks**
Bamatraf M., CEYLAN O., Pisica I., Özdemir A.
2023 International Conference on Smart Energy Systems and Technologies, SEST 2023, Muğla, Turkey, 4 - 06 September 2023
- II. **Voltage Profile Improvement in Unbalanced Distribution Grids by Sequential Quadratic Programming**
Bamatraf M., Ceylan O., Pisica I., Özdemir A.
16th IEEE AFRICON, AFRICON 2023, Nairobi, Kenya, 20 - 22 September 2023
- III. **SLP Optimization-Based Voltage Profile Improvement in Unbalanced Distribution Networks With SOP Devices**
Bamatraf M., Ceylan O., Pisica I., Özdemir A.
58th International Universities Power Engineering Conference, UPEC 2023, Dublin, Ireland, 30 August - 01 September 2023
- IV. **Application of Networked Microgrids for Distribution System Restoration After Natural Disasters**
Ghobadi M., Kenari M. T., Sepasian M. S., Özdemir A.
16th IEEE AFRICON, AFRICON 2023, Nairobi, Kenya, 20 - 22 September 2023
- V. **The Role of Electrical Commissioning Tests on Power Plant Electrical Asset Reliability**
Fadıl M. H., ÖZDEMİR A.
13th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion, MEDPOWER 2022, Malta, Malta, 7 November - 07 September 2022
- VI. **Impacts of Corona Cage Dimension on the Corona Characteristics of HVDC Applications, 7-9 November, 2022, Malta.**
FONT A., Espino Cortes F., ÖZDEMİR A.
13th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion, MEDPOWER 202, Malta, Malta, 7 - 09 November 2022
- VII. **Demand forecasting and generation scheduling for a secure and cost-effective operation of power systems**
SEZGİN KÖKSAL H. A., Sezgin L., ÖZDEMİR A.
The 2022 International Conference on Power, Energy and Innovations, ICPEI 2022, Pattaya, Thailand, 19 - 22 October 2022
- VIII. **Distribution System Reliability Improvement through DC traction power linked Electric Vehicles**
ÖZDEMİR A.
11th International Conference on Power Science and Engineering, ICPSE 2022, Eskişehir, Turkey, 23 - 25 September 2022
- IX. **Gamification Approaches to Increase Small-Scale End Users' Flexibility**
ÖZDEMİR A.
International Conference on Electrical Facilities and information technologies 2022; New Intelligence Technology : Past, Present and Future, Tashkent, Uzbekistan, 10 - 13 August 2022
- X. **Bidding Strategy of a Microgrid in Joint Energy and Reserve Markets: An IGDТ-Based Approach**
Mohseni M., Sedaghatkardar A., Mohseni M., Heydarian-Forushani E., Guner S., Özdemir A.
57th International Universities Power Engineering Conference (UPEC) - Big Data and Smart Grids, İstanbul, Turkey, 30 August - 02 September 2022
- XI. **Sequential Volt/Var Controller for PV Smart Inverters in Distribution Systems**
Aboshady F. M., Pisica I., CEYLAN O., Taylor G. A., Zobaa A. F., Özdemir A.
57th International Universities Power Engineering Conference (UPEC) - Big Data and Smart Grids, İstanbul, Turkey, 30 August - 02 September 2022
- XII. **Impacts of Corona Cage Dimension on the Corona Characteristics of HVDC Applications**
Font A., Cortes F. E., Özdemir A.
13th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion, MEDPOWER 2022, Valletta, Virtual, Malta, 7 - 09 November 2022, vol.2022, pp.459-464
- XIII. **The Impacts of The Temperature-Humidity Fluctuations in Substations and Practical Experimental Applications**

Dursun I., Akinc H., Guner S., Özdemir A.

57th International Universities Power Engineering Conference (UPEC) - Big Data and Smart Grids, İstanbul, Turkey, 30 August - 02 September 2022

XIV. Voltage Control of Unbalanced Distribution Systems with Penetration of Renewable Sources: A Gradient-Based Optimization Approach

Ebadi R., Senyuz H., Aboshady F., CEYLAN O., Pisica I., Özdemir A.

57th International Universities Power Engineering Conference (UPEC) - Big Data and Smart Grids, İstanbul, Turkey, 30 August - 02 September 2022

XV. Enhancing photovoltaic hosting capacity in distribution networks by optimal allocation and operation of static var compensators

Ahmadi B., CEYLAN O., Özdemir A.

57th International Universities Power Engineering Conference (UPEC) - Big Data and Smart Grids, İstanbul, Turkey, 30 August - 02 September 2022

XVI. Composite system reliability assessment to reduce the curtailment risk using the storage systems

Koksal A., Özdemir A.

7th IEEE International Energy Conference, ENERGYCON 2022, Riga, Latvia, 9 - 12 May 2022

XVII. An Optimization Framework for Distributed Energy Resource Planning and Energy Management Strategy of Storage Devices and Electric Vehicles

Ahmadi B., CEYLAN O., Özdemir A.

2nd International Conference on Energy Transition in the Mediterranean Area, SyNERGY MED 2022, Thessaloniki, Greece, 17 - 19 October 2021

XVIII. Load Point Reliability Analysis in LV Distribution Networks with P2P Energy Trading

Polat K., Özdemir A., Delkhooni M.

17th International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Manchester, England, 12 - 15 June 2022

XIX. Assessment of storage system benefits on the reliability and the cost of composite electric power systems

Koksal A., Özdemir A.

7th IEEE International Energy Conference, ENERGYCON 2022, Riga, Latvia, 9 - 12 May 2022

XX. Energy Loss Minimization with Parallel Implementation of Marine Predators Algorithm

Younesi S., Ahmadi B., CEYLAN O., ÖZDEMİR A.

13th International Conference on Electrical and Electronics Engineering ELECO 2021, Bursa, Turkey, 25 - 27 November 2021

XXI. Reliability Analysis in Low Voltage Distribution Network with Peer to Peer Energy Trading

Polat K., Özdemir A., Delkhooni M.

2021 IEEE Madrid PowerTech, PowerTech 2021, Madrid, Spain, 28 June - 02 July 2021

XXII. Impacts of Driver Willingness on the Storage Capacity of EV Parking Lots

Guner S., Özdemir A.

2021 IEEE Madrid PowerTech, PowerTech 2021, Madrid, Spain, 28 June - 02 July 2021

XXIII. Allocation of Distributed Generators Using Parallel Grey Wolf optimization

Younesi S., Ahmadi B., Ceylan O., Özdemir A.

9th International Conference on Modern Power Systems, MPS 2021, Cluj-Napoca, Romania, 16 - 17 June 2021

XXIV. Multi-objective Distributed Energy Resource Integration in Radial Distribution Networks

Ahmadi B., Younesi S., Ceylan O., Özdemir A.

56th International Universities Power Engineering Conference (UPEC) - Powering Net Zero Emissions, ELECTRIC NETWORK, 31 August - 03 September 2021

XXV. The Arithmetic Optimization Algorithm for Optimal Energy Resource Planning

Ahmadi B., Younesi S., Ceylan O., Özdemir A.

56th International Universities Power Engineering Conference (UPEC) - Powering Net Zero Emissions, ELECTRIC NETWORK, 31 August - 03 September 2021

XXVI. Voltage Profile Improving And Peak Shaving Using Multi-type Distributed Generators And Battery

Energy Storage Systems In Distribution Networks

ahmadi b., CEYLAN O., ÖZDEMİR A.

2020 55th International Universities Power Engineering Conference (UPEC), Torino, Italy, 1 - 04 September 2020

- XXVII. **Impacts of Load and Generation Volatilities on the Voltage Profiles Improved by Distributed Energy Resources**

ahmadi b., CEYLAN O., ÖZDEMİR A.

2020 55th International Universities Power Engineering Conference (UPEC), Torino, Italy, 1 - 04 September 2020

- XXVIII. **Partial Discharge Pattern Classification based on Deep Learning for Defect Identification in MV Cable Terminations**

Üçkol H. İ., İlhan S., Özdemir A.

7th IEEE International Conference on High Voltage Engineering and Application, ICHVE 2020, Beijing, China, 6 - 10 September 2020

- XXIX. **Intelligent Method Applications in PD Based Diagnostics**

ÖZDEMİR A.

2020 IEEE International Conference on High Voltage Engineering and Application, Beijing, China, 6 - 10 September 2020

- XXX. **The loss of hydrophobicity of HTV silicone rubber in a dynamic drop test**

İlhan S., Tuzun D., Özdemir A.

21st International Symposium on High Voltage Engineering, ISH 2019, Budapest, Hungary, 26 - 30 August 2019, vol.599 LNEE, pp.320-327

- XXXI. **Detailed Evaluation of Long-term Gamified Residential Demand Management System Field Implementation**

Dashti N., ZEHİR M. A., Gül H., batman a., BAĞRIYANIK M., küçük ü., Soares F. J., ÖZDEMİR A.

20th International Conference on Intelligent Systems Applications to Power Systems – ISAP 2019, Delhi, Canada, 10 - 14 December 2019

- XXXII. **Optimal allocation of multi-type distributed generators for minimization of power losses in distribution systems**

ahmadi b., CEYLAN O., ÖZDEMİR A.

20th International Conference on Intelligent Systems Applications to Power Systems – ISAP 2019, Delhi, Canada, 10 - 14 December 2019

- XXXIII. **Grey wolf optimizer for allocation and sizing of distributed renewable generation**

ahmadi b., CEYLAN O., ÖZDEMİR A.

54rd International Universities Power Engineering Conference, Bucharest, Romania, 3 - 06 September 2019

- XXXIV. **AC and DC field distributions in glass, RTV-coated glass and composite insulators**

Uckol H. İ., İLHAN S., ÖZDEMİR A.

11th International Conference on Electrical and Electronics Engineering, ELECO 2019, Bursa, Turkey, 28 - 30 November 2019, pp.336-340

- XXXV. **A reliability-transient stability analysis of power systems for protection system conditions**

SEZGİN KÖKSAL H. A., mitra j., ÖZDEMİR A.

Modern Electric Power Systems MEPS'19, Wroclaw, Poland, 9 - 12 September 2019

- XXXVI. **Cuckoo search algorithm for optimal siting and sizing of multiple distributed generators in distribution grids**

ahmadi b., CEYLAN O., ÖZDEMİR A.

Modern Electric Power Systems MEPS'19, Wroclaw-POLAND, September 9-12, 2019., 9 - 12 September 2019

- XXXVII. **Minimization of Radio Interference Levels in a Hybrid Transmission Line**

Martinez C. T., cortes F. E., ÖZDEMİR A., İLHAN S.

2019 IEEE Milan PowerTech, Milan, Italy, Italy, 23 - 27 June 2019

- XXXVIII. **Impacts of Feeder Failure Statistics on EV-Supported Distribution System Reliability Improvement**

GÜNER S., ÖZDEMİR A.

2019 IEEE Milan PowerTech, Milan, Italy, Italy, 23 - 27 June 2019

- XXXIX. **Corona Inception and Breakdown Voltages of Rod-Plane Electrode for Severe Ambient Conditions**

Gharaaghaji S. S., Fadil H., İLHAN S., ÖZDEMİR A., İSMAİLOĞLU H., cortes F. E.

2019 IEEE Milan PowerTech, Milan, Italy, Italy, 23 - 27 June 2019

- XL. **Electrical Performance of HTV Silicone Rubber under Different Fillers and Filler Loadings**
İLHAN S., Tuzun D., ÖZDEMİR A.
2019 Electrical Insulation Conference, Calgary, Canada, 16 - 19 June 2019
- XLl. **Computation Of the Corona Onset Voltage For DC at Two Different Altitudes**
cortes F. E., cortes R. V., miranda R. L., ÖZDEMİR A., İLHAN S.
2019 Electrical Insulation Conference, Calgary, Canada, 16 - 19 June 2019
- XLII. **Management of Inverter-based Distributed Energy Resources for Providing Voltage Regulation Support in Islanded Operation of Low Voltage Networks**
ZEHİR M. A., Antonio B., Sandroni C., Pellegrino L., Lazzari R., Verga L., BAĞRIYANIK M., küçük ü., Soares F. J., ÖZDEMİR A.
2018 53rd International Universities Power Engineering Conference (UPEC), Glasgow, United Kingdom, 4 - 07 September 2018
- XLIII. **Gamification Approaches to Increase End Users' Flexibility**
ÖZDEMİR A.
The 11th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion, Special Session on Distributed Energy Resources and the Use of Flexibility in Future Power Systems, MEDPOWER2018, Dubrovnik, Croatia, 12 - 15 November 2018
- XLIV. **Aggregated Active and Reactive Power and Energy Management of Distributed Energy Resources and Performance Evaluation**
ZEHİR M. A., BARBOSA A., SANDRONİ C., PELLEGRİNO L., LAZZARİ R., VERGA M., BAĞRIYANIK M., Küçük Ü., SOARES F., ÖZDEMİR A.
11th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER) 2018, Dubrovnik, Croatia, 12 - 15 November 2018, pp.1-6
- XLV. **Building Automation Systems and Smart Meter Integrated Residential Customer Platform**
AYDIN z., PORTELA J. C., Küçük Ü., ZEHİR M. A., GÜL H., BAĞRIYANIK M., SOARES F., ÖZDEMİR A.
11th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER) 2018, Dubrovnik, Croatia, 12 - 15 November 2018
- XLVI. **Determination of Corona Inception Voltages of Rod-Plane Electrode Systems**
İLHAN S., ÖZDEMİR A., AYTUG f., ESPİNOCORTES F.
International Conference on High Voltage Engineering (ICHVE 2018), 10 - 13 September 2018
- XLVII. **Optimization of Corona Radio Interference Levels in HVDC Transmission Lines**
MARTÍNEZ C. T., CORTES F. E., İLHAN S., ÖZDEMİR A.
2018 International Conference on High Voltage Engineering and Application, ICHVE 2018, 10 - 13 September 2018
- XLVIII. **System-level RCAM assessment of power transformers using fuzzy multi-attribute scoring procedure**
Koksal A., Özdemir A., MÍTRA J.
2018 International Conference on Probabilistic Methods Applied to Power Systems, PMAPS 2018, Idaho, United States Of America, 24 - 28 June 2018
- XLIX. **An Extended Parametric Analysis of Transformer Maintenance Plan Using Markov State Diagram**
Koksal A., Özdemir A.
IEEE International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Idaho, United States Of America, 24 - 28 June 2018
- L. **Identification and comparison of power and energy management capabilities of distributed energy resources**
ZEHİR M. A., Barbosa A., Sandroni C., Lazzari R., Pellegrino L., Verga L., BAĞRIYANIK M., küçük ü., Soares F. J., ÖZDEMİR A.
2018 6th International Istanbul Smart Grids and Cities Congress and Fair (ICSG), İstanbul, Turkey, 25 - 26 April 2018
- LI. **Demand response with residential and commercial loads for phase balancing in secondary distribution networks**

ZACHARAKI V., Zehir M., THAVLOV A., HEUSSEN K., Batman A., TSIAMITROS D., Stimoniaris D., Özdemir A., DIALYNAS E., Bağrıyanık M.

6th International Istanbul Smart Grids and Cities Congress and Fair, ICSG 2018, İstanbul, Turkey, 25 - 26 April 2018, pp.124-128

LII. Generator Stator Sargılarında Korona Boşalmaları

ÖZDEMİR A.

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1999 International Conference on Electric Power Engineering, PowerTech Budapest 1999, Budapest, Hungary, 29 August - 02 September 1999, pp.84

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1999 International Conference on Electric Power Engineering, PowerTech Budapest 1999, Budapest, Hungary, 29 August - 02 September 1999, pp.117

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1998 International Conference on Power System Technology (POWERCON 98), Beijing, China, 18 - 21 August 1998, pp.237-240

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Elektrik Mühendisliği 7. Ulusal Kongresi, Ankara, Turkey, 8 - 14 September 1997, pp.660-663
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ÖZDEMİR A.
Elektrik Mühendisliği 6. Ulusal Kongresi, Bursa, Turkey, 11 - 17 September 1995, pp.302-305
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Elektrik Mühendisliği 5. Ulusal Kongresi, Trabzon, Turkey, 13 - 18 September 1993, pp.625-632
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Özdemir A.
IFAC Workshop on Automatic Control for Quality and Productivity, ACQP 92, pp.625-632., İstanbul, Turkey, 3 - 05 June 1992, pp.625-632
- CLXVIII. **Yürüyen Dalgaların Korona Etkisi İle Zayıflama ve Bozulmasının İncelenmesi**
KALENDERLİ Ö., ÖZDEMİR A.
Elektrik Mühendisliği 4. Ulusal Kongresi, İzmir, Turkey, 16 - 22 September 1991, pp.357-360
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ÖZDEMİR A.
Elektrik Mühendisliği 2. Ulusal Kongresi, Ankara, Turkey, 23 - 25 September 1987, pp.669-671
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ÖZDEMİR A.
Elektrik Mühendisliği 2. Ulusal Kongresi, Ankara, Turkey, 23 - 25 September 1987, pp.637-640
- CLXXI. **Enerji Sistemlerinde Güçlerin Optimal Dağılımı**
Tarkan N., ÖZDEMİR A.
Elektrik Mühendisliği 1. Ulusal Kongresi, Adana, Turkey, 25 - 27 September 1985, pp.247-251

Supported Projects

- Özdemir A., Project Supported by Higher Education Institutions, Orta gerilim panolarında yalıtım problemleri ve Akıllı Çözümler, 2023 - 2024
- Özdemir A., Project Supported by Higher Education Institutions, Aktif elektrik dağıtım şebekelerinde doğal afetlere karşı dayanıklılık optimizasyonu, 2023 - 2024
- Özdemir A., Project Supported by Higher Education Institutions, Dengesiz Dağıtım Şebekelerinde Ardışık Karesl Programlama ile Gerilim Profillerinin İyileştirilmesi, 2023 - 2023
- Özdemir A., Ceylan O., TUBITAK Project, Akıllı Şebekeler Ve Akıllı Toplum İçin Gelişmiş Evrimsel Hesaplamalar, 2018 - 2021
- İlhan S., Özdemir A., Project Supported by Higher Education Institutions, Silikon Kaplı İzolatörlerin Elektriksel ve Isıl Özelliklerinin İyileştirilmesi, 2018 - 2020
- Özdemir A., İlhan S., Project Supported by Higher Education Institutions, Yıldırıma Karşı Koruma Düzeneklerinin

Değerlendirilmesi ve Karşılaştırılması, 2017 - 2020

İlhan S., Özdemir A., Cortes F. E., TÜBİTAK International Bilateral Joint Cooperation Program Project, Corona discharge characterization and electromagnetic effects of HVDC transmission lines, 2017 - 2019

Özdemir A., İlhan S., TUBITAK Project, Uzun Ömürlü Silikon İzolatör İçin Optimum Katkı Kompozisyonu Belirlenmesi Ve Ömür Kestirimi, 2017 - 2019

Özdemir A., Bağrıyanık M., Soares F. J., H2020 Project, Grid Responsive Society Through Building Automation Systems GReSBAS, 2016 - 2019

Özdemir A., Project Supported by Higher Education Institutions, Ulusal Elektrik İletim Sistemimiz İçin Güvenilirlik Tabanlı Donanım Yönetimi: Doğrulama Süreci, 2016 - 2018

Özdemir A., Project Supported by Higher Education Institutions, Araç Geliş/Gidiş Şablonlarının Elektrikli Araç Otopark Enerji Kapasitesine Etkisi, 2016 - 2018

Özdemir A., Project Supported by Higher Education Institutions, Olumsuz Hava Koşullarının 154 Kv Ulusal Elektrik İletim Sistem Arızalarına Etkisi, 2015 - 2018

Özdemir A., Project Supported by Higher Education Institutions, Ulusal Elektrik İletişim Sistemlerinde Arıza Yayılımı, 2014 - 2018

Özdemir A., Project Supported by Higher Education Institutions, Armoni Arama Yöntemi ile Optimal PMU Yerleşimi, 2013 - 2018

Özdemir A., Project Supported by Higher Education Institutions, Elektrik Enerji İletim Sistemlerinde Arıza Yayılması ve Ardışık Arızalar, 2013 - 2018

Özdemir A., Project Supported by Higher Education Institutions, 380 kV V-Askı Zincirlerin Düzgün Yüzey Kirlenmesi Durumunda Arılma Performansı, 2011 - 2018

Özdemir A., Project Supported by Higher Education Institutions, ARMONİ ARAMA TABANLI PARALEL KISITLIK ANALİZİ, 2010 - 2018

Özdemir A., Project Supported by Higher Education Institutions, TÜRKİYE ELEKTRİK İLETİM ŞEBEKESİNDE GTB GÜVENLİK TEMEL BAKIM UYGULAMASI, 2010 - 2018

Özdemir A., Project Supported by Higher Education Institutions, ELEKTRİK ENERJİ SİSTEMLİNDE HAT ÇIKMA PROBLEMİNİN DİFERANSİYEL GELİŞİM EVRİMSEL ALGORİTMASI İLE ÇÖZÜMÜ, 2009 - 2018

Özdemir A., Project Supported by Higher Education Institutions, PETKİM Aliağa Petrokimya Kompleksi Elektrik Enerji Sisteminin Yük Akışı Analizi, 2009 - 2018

Özdemir A., Project Supported by Higher Education Institutions, İzalatör Zincirlerinde Farklı Eleman Kullanımlarının Gerilim Dağılımına Etkisi, 2007 - 2018

Özdemir A., Project Supported by Higher Education Institutions, Kesme Akımın Kapasitif Devre Açılmasındaki Geçici Olaylara Etkisi, 2004 - 2018

Özdemir A., Djokic S., Project Supported by Private Organizations in Other Countries, Smart Grid Transformation of Existing Electricity Networks in the UK and Turkey: What are the Challenges and How They Change from Smart Cities to Smart Villages, 2017 - 2017

Özdemir A., EU Supported Other Project, Gamified Management of Distributed Energy Resources , GaMDER, 2017 - 2017

Özdemir A., Kalkan G., TUBITAK Project, Dünyanın İlk 72 kV Nominal İşletme Gerilimine Sahip Dökme Reçineli Kuru Tip Transformatörünün Tasarımı Prototip İmalatı ve Prototip Testler, 2015 - 2017

Özdemir A., TÜBİTAK International Bilateral Joint Cooperation Program Project, Smart Electrical Energy Management and Buildings Energy Efficiency Technologies, 2014 - 2016

Özdemir A., Altun M., TUBITAK Project, Beyaz Eşya Elektronik Kartları için Yüksek Doğruluklu bir Güvenilirlik Analizi Metodolojisi, 2013 - 2016

Özdemir A., İlhan S., Industrial Thesis Project, Bakır Giydirilmiş Alüminyum İletkenli Geçit izolatörü Geliştirme Projesi, 2013 - 2014

Özdemir A., Project Supported by Higher Education Institutions, Orta Gerilim Duvar Tipi Geçit İzolatörü Isıl Performansının İyileştirilmesi, 2013 - 2014

Özdemir A., Project Supported by Higher Education Institutions, Darbe Generatorü Veri Alma ve İşleme Yazılımı, 2011 - 2014

Özdemir A., Süer M., TUBITAK Project, TCDD Demiryolları Elektrifikasyon Konsol Hoban Kompozit İzolatör ve Konsol Donanımı, 2010 - 2012

Özdemir A., Project Supported by Higher Education Institutions, Katı Yalıtkanlarda Elektriksel Zorlanmalar ve Ömür Saptanması, 2003 - 2004

Activities in Scientific Journals

ENERGIES, Assistant Editor/Section Editor, 2022 - Continues

IET GENERATION, TRANSMISSION AND DISTRIBUTION, Assistant Editor/Section Editor, 2022 - Continues

Memberships / Tasks in Scientific Organizations

IEEE, Member, 1990 - Continues, United States Of America

Elektrik Mühendisleri Odası, Member, 1980 - Continues, Turkey

Tasks In Event Organizations

Özdemir A., INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, 2003, Scientific Congress, Bursa, Turkey, Aralık 2003

Mobility Activity

Sabbatical Leave, Lecturing, Texas A&M University, United States Of America, 2000 - 2002

Metrics

Publication: 221

Citation (WoS): 443

Citation (Scopus): 1041

H-Index (WoS): 11

H-Index (Scopus): 18

Congress and Symposium Activities

13th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion, MEDPOWER 2022, Attendee, Valletta, Malta, 2022

The 2022 International Conference on Power, Energy and Innovations, ICPEI 2022, Attendee, Bangkok, Thailand, 2022

57th International Universities Power Engineering Conference, Attendee, İstanbul, Turkey, 2022

17th International Conference on Probabilistic Methods Applied to Power Systems PMAPS 2022, Attendee, Manchester, England, 2022

IEEE International Energy Conference-ENERGYCON 2022, Attendee, Riga, Latvia, 2022

13th International Conference on Electrical and Electronics Engineering ELECO 2021, Attendee, Bursa, Turkey, 2021

56th International Universities Power Engineering Conference, Attendee, Middlesbrough, England, 2021

PowerTech 2021, Attendee, Madrid, Spain, 2021

The 9th International Conference on Modern Power Systems, MPS 2021, Attendee, Cluj, Romania, 2021

2020 International Conference on High Voltage Engineering and Application, ICHVE 2020, Attendee, Beijing, China, 2020

11th International Conference on Electrical and Electronics Engineering ELECO 2019, Attendee, Bursa, Turkey, 2020

20th International Conference on Intelligent Systems Applications to Power Systems – ISAP 2019, Attendee, New Delhi,

India, 2019

Modern Electric Power Systems MEPS'19, Attendee, Wroclaw, Poland, 2019

54rd International Universities Power Engineering Conference, Attendee, Bucuresti, Romania, 2019

21th International Symposium on High Voltage Engineering-ISH 2019, Attendee, Budapest, Hungary, 2019

PowerTech 2019, Attendee, Milan, Italy, 2019

The 11th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion, MEDPOWER2018, Attendee, Dubrovnik, Croatia, 2018

2018 International Conference on High Voltage Engineering and Application, ICHVE 2018 , Attendee, Athens, Greece, 2018

The 53th International Universities Power Engineering Conference, Attendee, Glasgow, England, 2018

15th International Conference on Probabilistic Methods Applied to Power Systems PMAPS 2018, Attendee, Idaho, United States Of America, 2018

6th International Istanbul Smart Grid and Cities Congress and Fair (ICSG), Attendee, İstanbul, Turkey, 2018

Invited Talks

The resilience of active electric distribution systems, Niroo Research Center (NRI), Tahran-IRAN, December 5-6, 2023, Conference, The 13th Conference on Smart Energy Networks-SGC2023, Plenary Speech, Iran, December 2023

PEV Parking Lots for the Sustainable Energy Supply of Smart Cities, Seminar, , Seminar, Iran, December 2023

Active Distribution System Resilience: Assessment, Metrics, Improvement, and Challenges, Plenary Speech, Conference, International Conference on Smart Energy Systems and Technologies- SEST 2023,, Turkey, September 2023

Electric Vehicle Parking Lots for the Sustainable Energy Supply of Smart Cities, Plenary Speech, Conference, 2nd

International Conference on Electrical Facilities and Information Technologies (ICEF2023), Kazakhstan, August 2023

PEV Parking Lots for the Sustainable Energy Supply of Smart Cities, , Plenary Speech, Conference, 5th Global Power, Energy and Communication Conference, GPECOM 2023, Turkey, June 2023

Gamification Approaches to Increase Small-Scale End Users' Flexibility, Plenary Speech, Conference, The 12th Conference on Smart Energy Networks-SGC2022, Iran, December 2022

ICPSE 2022 11th International Conference on Power Science and Engineering-ICPSE 2022-Distribution System Reliability Improvement through DC traction power linked Electric Vehicles, Plenary Speech, Conference, Eskişehir Technical University, Turkey, September 2022

International Conference on Electrical Facilities and Information Technologies 2022: New Intelligence Technology; Past, Present and Future- Gamification Approaches to Increase Small-Scale End Users' Flexibility , Plenary Speech, Conference, TURIN POLYTECHNIC UNIVERSITY IN TASHKENT, Uzbekistan, August 2022

Distribution System Reliability Improvement through DC traction power linked Electric Vehicles, Plenary Speech, Conference, The 3rd Asian Conference on Railway Engineering and Transportation ART2021, South Korea, November 2021

2020 ELEKTRİK-ELEKTRONİK ve BİYOMEDİKAL MÜHENDİSLİĞİ KONFERANSI/Kısmi Boşalmalar ve Akıllı Yalıtım Arıza Tanısı Uygulamaları, Conference, Elektrik Mühendisleri Odası, Turkey, November 2020

2020 IEEE International Conference on High Voltage Engineering and Application, Plenary Speech/Intelligent Method Applications in PD Based Diagnostics, Conference, IEEE, China, October 2020

Gamification Approaches to Increase End Users' Flexibility, Conference, MEDPOWER, Croatia, November 2018

Reliability Evaluation of Active Distribution Systems, Workshop, POWERTECH 2019, Italy, October 2018

Scholarships

Visiting Professorsip, University, 2000 - 2002

Awards

Üçkol H. İ., İlhan S., Özdemir A., AC and DC field distributions in glass, RTV-coated glass and composite insulators, 11Th International Conference On Electrical And Electronics Engineering Eleco 2019, November 28-30, 2019, Bursa/Turkey, November 2019

Özdemir A., Zehir M. A., Identification and Comparison of Power and Energy Management Capabilities of Distributed Energy Resources, 6Th International Istanbul Smart Grid And Cities Congress And Fair (Icsg), 25-27 April, 2018, Istanbul-Turkey, Doi: 10.1109/Sgcf.2018.8408955 Best Paper Award, April 2018

Bağrıyanık M., Zehir M. A., Özdemir A., Analysis of critical operating conditions for LV distribution networks with microgrids, Innovative Manufacturing Engineering & Energy International Conference, Imanee 2016, September 23-25, 2016 Kallithea Chalkidiki, Greece., September 2016

İlhan S., İsmailoğlu H., Özdemir A., Design of Corona Rings For 380 kV nonceramic V-Insulator String, 18Th International Symposium On High Voltage Engineering-Ish 2013, 25-30 August 2013, Seoul, Korea, August 2003

Non Academic Experience

İstanbul Teknik Üniversitesi

Texas A&M University