

Prof. Ozan ERDİNÇ

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Biography

Ozan Erdinç received the B.Sc., M. Sc., and Ph.D. degrees from Yıldız Technical University (YTU), Istanbul, Turkey, in 2007, 2009, and 2012, respectively. Until May 2013, he was in the private sector in different positions including electrical installations, renewable energy investments, and as a procurement expert. In June 2013, he became a Postdoctoral Fellow in Portugal, under the EU-FP7 funded SINGULAR Project. Later, he joined the Department of Electrical Engineering, YTU, where in April 2016 he obtained the title of Associate Professor. On September 2021, he was appointed as a *Full Professor* at the same university. He was the Director of Energy Application and Research Center of YTU. He is currently IEEE Power and Energy Society (PES) Turkey Chapter Chair, the Head of IT Department of YTU, and Head of Alternative Energy Based Electric Systems Division at the Department of Electrical Engineering (YTU). He is the Sole Editor of the book entitled *Optimization in Renewable Energy Systems* (Butterworth-Heinemann Press, 2017) and the Co-Editor of the book entitled *Pathways to a Smarter Power System* (Academic Press, 2019). He has over 100 international publications with an h-index of 26 according to WoS and 34 according to Google Scholar. He supervised 3 Phd and 7 MSc theses, and still supervises over 10 theses in Electric Power System area. He has been the PI and Main consultant of 20 projects with different industrial partners with projects budgets reaching 2 million Euros individually and over 5 million Euros in total. His research interests are hybrid renewable energy systems, electric vehicles, power system operation, and smart grid technologies.

Prof. Erdinç has served as the Honorary Chair, General Co-Chair, Technical Chair, and Technical Program Committee Member in several IEEE Sponsored or IEEE Co-sponsored conferences. He gave numerous keynote speeches, invited lectures, etc. in different international and national organizations including IEEE sponsored/co-sponsored conferences.

Prof. Erdinç was the recipient of the *Fundação para a Ciência e a Tecnologia (FCT - Portuguese National Funding Agency for Science, Research and Technology) Post-Doctoral Research Grant Award* (among over 1,000 applicants) of 2014, *Turkish Science Academy Distinguished Young Scientist Award (TUBA GEBIP)* of 2020 and *IEEE Turkey Research Encouragement Award* of 2021.

Prof. Erdinç is a *Senior Member* of IEEE, an Editor for the *IEEE Transactions on Sustainable Energy*, *IEEE Power Engineering Letters*, *IEEE Open Access Journal of Power and Energy*, *Turkish Journal of Electrical Engineering Computer Sciences* and an Associate Editor for the *IEEE Access*, *IEEE Systems Journal*, *IET Smart Grid*, *IET Renewable Power Generation*, and *IET Generation, Transmission&Distribution*.

Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Elektrik Mühendisliği, Turkey
2009 - 2013

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Elektrik Mühendisliği, Turkey
2007 - 2009

Undergraduate, Yıldız Technical University, Faculty Of Electrical & Electronics, Elektrik Mühendisliği, Turkey 2003 - 2007

Research Areas

Electrical and Electronics Engineering, Energy, Direct Energy Conversion and Energy Storage, Power System Analysis, Electric Power Transmission, Distribution and Protection, Renewable energy, Engineering and Technology

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2021 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2016 - 2021

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2015 - 2016

Assistant Professor, Istanbul Arel University, Faculty Of Engineering-Architecture, Department Of Electrical And Electronics Engineering, 2014 - 2015

Academic and Administrative Experience

Manager of Research and Application Center, Yildiz Technical University, -----, Energy Application and Research Center, 2018 - Continues

Head of Department, Yildiz Technical University, Faculty of Electrical & Electronics, Electrical Engineering Department, 2017 - Continues

Rectorate Commissioner, Yildiz Technical University, -----, Akademik Teşvik Düzenleme, Denetleme ve İtiraz Komisyonu, 2017 - Continues

Deputy Head of Department, Yildiz Technical University, Faculty of Electrical & Electronics, Electrical Engineering Department, 2017 - 2018

Erasmus Coordinator, Yildiz Technical University, Faculty of Electrical & Electronics, Electrical Engineering Department, 2015 - 2016

Deputy Head of Department, Istanbul Arel University, Faculty Of Engineering And Architecture, Department Of Electrical And Electronics Engineering, 2014 - 2015

Courses

Renewable Energy Systems, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

Optimization of Electric Energy Systems , Doctorate, 2019 - 2020, 2018 - 2019

Electric Vehicles, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Introduction to Smart Grids, Undergraduate, 2017 - 2018, 2016 - 2017

Advising Theses

Erdoğan O., Ortak enerji depolama sistemlerinin elektrik güç sistemlerinde talep cevabı konsepti için kullanılması, Postgraduate, A.ÇİÇEK(Student), 2018

Erdoğan O., Mikroşebekelerde talep tarafının esnekliğini dikkate alan optimum işletim yaklaşımının geliştirilmesi, Postgraduate, A.KÜBRA(Student), 2018

Erdoğan O., Elektrikli otobüslerin metrobüs hattında kullanımının tekno-ekonomik analizi, Postgraduate, A.ALTAY(Student), 2017

Erdoğan O., Integration of distributed generation in Iraq electrical distribution system: Pre-results and suggestions, Postgraduate, A.ISAM(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Maximizing EV profit and grid stability through Virtual Power Plant considering V2G**
Türkoğlu A. S., GÜLDORUM H. C., Sengor I., Çiçek A., ERDİNÇ O., Hayes B. P.
Energy Reports, vol.11, pp.3509-3520, 2024 (SCI-Expanded)
- II. **Energy Management Strategy of a Green Port Serving Emission-Free Ferries Considering EV Parking Lot Availability**
Ozdemir H., GÜLDORUM H. C., ERENOĞLU A. K., Sengor I., Hayes B. P., ERDİNÇ O.
IEEE Transactions on Intelligent Transportation Systems, vol.25, no.6, pp.5640-5650, 2024 (SCI-Expanded)
- III. **A Novel Closed-Loop Frequency Control Approach for Wireless Power Transfer Systems in On-Road Electric Vehicles**
Ağçal A., Özçira Özkılıç S., Gökçek T., Bekiroğlu K. N., Obdan A. H., Erdinç O.
IEEE Transactions on Intelligent Transportation Systems, vol.24, no.12, pp.15300-15309, 2023 (SCI-Expanded)
- IV. **Integration of electric vehicle parking lots into railway network considering line losses: A case study of Istanbul M1 metro line**
Karakuş F., Çiçek A., ERDİNÇ O.
Journal of Energy Storage, vol.63, 2023 (SCI-Expanded)
- V. **Real-Time Allocation of Multi-Mobile Resources in Integrated Distribution and Transportation Systems for Resilient Electrical Grid**
Erenoglu A. K., ERDİNÇ O.
IEEE Transactions on Power Delivery, vol.38, no.2, pp.1108-1119, 2023 (SCI-Expanded)
- VI. **Optimal Bidding Strategy Considering Bilevel Approach and Multistage Process for a Renewable Energy Portfolio Manager Managing RESs With ESS**
Cicek A., ERDİNÇ O.
IEEE SYSTEMS JOURNAL, vol.16, no.4, pp.6062-6073, 2022 (SCI-Expanded)
- VII. **A hierarchical approach for P2P energy trading considering community energy storage and PV-enriched system operator**
GÖKÇEK T., Sengor I., Hayes B. P., ERDİNÇ O.
IET GENERATION TRANSMISSION & DISTRIBUTION, vol.16, no.23, pp.4738-4749, 2022 (SCI-Expanded)
- VIII. **Resiliency-Sensitive Decision Making Mechanism for a Residential Community Enhanced with Bi-Directional Operation of Fuel Cell Electric Vehicles**
Erdinc F. G., ÇİÇEK A., ERDİNÇ O.
ENERGIES, vol.15, no.22, 2022 (SCI-Expanded)
- IX. **Optimal sizing and siting of different types of EV charging stations in a real distribution system environment**
Sengor I., Erenoglu A. K., Güldorum H. C., Erdinç O., Taşcıkaraoğlu A., Taştan İ. C., Büyük A. F., Catalão J. P. S.
IET RENEWABLE POWER GENERATION, vol.16, no.15, pp.3171-3183, 2022 (SCI-Expanded)
- X. **Management strategy for V2X equipped EV parking lot considering uncertainties with LSTM Model**
Güldorum H. C., Şengör İ., Erdinç O.
ELECTRIC POWER SYSTEMS RESEARCH, vol.212, 2022 (SCI-Expanded)
- XI. **Optimal Bidding Strategy of a Pumped Hydro Energy Storage Integrated Nuclear Power Plant considering Possible Outage**
Uguz F., Turan A., GÖKÇEK T., Ates Y., ERDİNÇ O.
INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS, vol.2022, 2022 (SCI-Expanded)
- XII. **Multi-objective risk-constrained operation of hydrogen-based renewable energy integrated distribution network**
Zare Oskouei M., Mohammadi-Ivatloo B., ERDİNÇ O., Gulsen Erdinc F.

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.10, pp.14462-14477, 2022 (SCI-Expanded)

- XIII. **Resiliency-Driven Multi-Step Critical Load Restoration Strategy Integrating On-Call Electric Vehicle Fleet Management Services**
Erenoglu A. K., Sancar S., Terzi I. S., ERDİNÇ O., Shafie-Khah M., Catalao J. P. S.
IEEE TRANSACTIONS ON SMART GRID, vol.13, no.4, pp.3118-3132, 2022 (SCI-Expanded)
- XIV. **Integrated Rail System and EV Parking Lot Operation With Regenerative Braking Energy, Energy Storage System and PV Availability**
ÇİÇEK A., Sengor I., Guner S., Karakus F., Erenoglu A. K., ERDİNÇ O., Shafie-Khah M., Catalao J. P. S.
IEEE TRANSACTIONS ON SMART GRID, vol.13, no.4, pp.3049-3058, 2022 (SCI-Expanded)
- XV. **Robust Control Strategies for Microgrids: A Review**
Mohammadi F., Mohammadi-Ivatloo B., Gharehpetian G. B., Ali M. H., Wei W., ERDİNÇ O., Shirkhani M.
IEEE SYSTEMS JOURNAL, vol.16, no.2, pp.2401-2412, 2022 (SCI-Expanded)
- XVI. **Optimal energy management system for microgrids considering energy storage, demand response and renewable power generation**
Erenoglu A. K., Sengor I., ERDİNÇ O., Tascikaraoglu A., Cataldo J. P. S.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.136, 2022 (SCI-Expanded)
- XVII. **Decision-making framework for power system with RES including responsive demand, ESSs, EV aggregator and dynamic line rating as multiple flexibility resources**
Erdinç F., Çiçek A., ERDİNÇ O., YUMURTACI R., Oskouei M. Z., Mohammadi-Ivatloo B.
Electric Power Systems Research, vol.204, 2022 (SCI-Expanded)
- XVIII. **Peer-to-peer energy trading among smart homes considering responsive demand and interactive visual interface for monitoring**
Gorgulu H., Topcuoglu Y., Yaldiz A., GÖKÇEK T., Ates Y., ERDİNÇ O.
SUSTAINABLE ENERGY GRIDS & NETWORKS, vol.29, 2022 (SCI-Expanded)
- XIX. **A Novel Multi-Hierarchical Bidding Strategy for Peer-to-Peer Energy Trading Among Communities**
GÖKÇEK T., Sengor I., ERDİNÇ O.
IEEE ACCESS, vol.10, pp.23798-23807, 2022 (SCI-Expanded)
- XX. **A Topological Overview of Microgrids: from Maturity to the Future**
Erenoğlu A. K., Sancar S., Erdinç O., Bağrıyanık M.
Turkish Journal Of Electrical Engineering And Computer Sciences, vol.1, pp.1-2, 2021 (SCI-Expanded)
- XXI. **Risk-averse optimal bidding strategy considering bi-level approach for a renewable energy portfolio manager including EV parking lots for imbalance mitigation**
Cicek A., ERDİNÇ O.
SUSTAINABLE ENERGY GRIDS & NETWORKS, vol.28, 2021 (SCI-Expanded)
- XXII. **Comprehensive survey on support policies and optimal market participation of renewable energy**
Cicek A., Guzel S., ERDİNÇ O., Catalao J. P. S.
ELECTRIC POWER SYSTEMS RESEARCH, vol.201, 2021 (SCI-Expanded)
- XXIII. **Design of a Decision-Based Multicriteria Reservation System for the EV Parking Lot**
Sadreddini Z., Guner S., ERDİNÇ O.
IEEE TRANSACTIONS ON TRANSPORTATION ELECTRIFICATION, vol.7, no.4, pp.2429-2438, 2021 (SCI-Expanded)
- XXIV. **Optimal sizing and economic analysis of Photovoltaic distributed generation with Battery Energy Storage System considering peer-to-peer energy trading**
Yaldız A., Gökçek T., Şengör İ., Erdinç O.
SUSTAINABLE ENERGY GRIDS & NETWORKS, vol.28, pp.100540, 2021 (SCI-Expanded)
- XXV. **Post-Event Restoration Strategy for Coupled Distribution-Transportation System Utilizing Spatiotemporal Flexibility of Mobile Emergency Generator and Mobile Energy Storage System**
Erenoğlu A. K., Erdinç O.
Electric Power Systems Research, vol.1, pp.1, 2021 (SCI-Expanded)
- XXVI. **Effects of On-Site PV Generation and Residential Demand Response on Distribution System Reliability**
Güner S., Erenoğlu A. K., Şengör İ., Erdinç O., Catalao J.

APPLIED SCIENCES-BASEL, vol.1, pp.1, 2021 (SCI-Expanded)

- XXVII. **Considering the combinatorial effects of on-site distributed generation and battery-to-X option availability in electric vehicle battery swap station operation**
ERDİNÇ O.
SUSTAINABLE ENERGY GRIDS & NETWORKS, vol.26, 2021 (SCI-Expanded)
- XXVIII. **An interactive multi-criteria decision-making framework between a renewable power plant planner and the independent system operator**
Soltaniyan S., Salehizadeh M. R., TAŞCIKARAOĞLU A., ERDİNÇ O., Catalao J. P. S.
SUSTAINABLE ENERGY GRIDS & NETWORKS, vol.26, 2021 (SCI-Expanded)
- XXIX. **Optimal Allocation of Renewable Sources and Energy Storage Systems in Partitioned Power Networks to Create Supply-Sufficient Areas**
Oskouei M. Z., Mohammadi-Ivatloo B., ERDİNÇ O., Erdinc F. G.
IEEE TRANSACTIONS ON SUSTAINABLE ENERGY, vol.12, no.2, pp.999-1008, 2021 (SCI-Expanded)
- XXX. **Real-Time Algorithm Based Intelligent EV Parking Lot Charging Management Strategy Providing PLL Type Demand Response Program**
Sengor I., Guner S., ERDİNÇ O.
IEEE TRANSACTIONS ON SUSTAINABLE ENERGY, vol.12, no.2, pp.1256-1264, 2021 (SCI-Expanded)
- XXXI. **Implementing a Demand Side Management Strategy for Harmonics Mitigation in a Smart Home using Real Measurements of Household Appliances**
Çiçek A., Erenoğlu A. K., Erdinç O., Bozkurt A., Taşçıkaraoğlu A., Catalao J.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.01420615, pp.1, 2021 (SCI-Expanded)
- XXXII. **Risk-averse optimal bidding strategy for a wind energy portfolio manager including EV parking lots for imbalance mitigation**
Cicek A., ERDİNÇ O.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.29, no.2, pp.481-498, 2021 (SCI-Expanded)
- XXXIII. **A Comprehensive Overview of Dynamic Line Rating Combined with Other Flexibility Options from an Operational Point of View**
Erdinc F. G., ERDİNÇ O., YUMURTACI R., Catalao J. P. S.
ENERGIES, vol.13, no.24, 2020 (SCI-Expanded)
- XXXIV. **Practical evidence-based evaluation of a combined heat reduction technique for power transformer buildings**
Dursun İ., Güner S., Şengör İ., Erenoğlu A. K., Erdinç O., Catalão J. P. S.
Electronics (Switzerland), vol.9, pp.1-14, 2020 (SCI-Expanded)
- XXXV. **User-Comfort Oriented Optimal Bidding Strategy of an Electric Vehicle Aggregator in Day-Ahead and Reserve Markets**
Şengör İ., Çiçek A., Erenoğlu A. K., Erdinç O., Catalao J.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.1, pp.1, 2020 (SCI-Expanded)
- XXXVI. **Decision Making Mechanism for A Smart Neighbourhood Fed by Multi-Energy Systems considering Demand Response**
Çiçek A., Şengör İ., Erenoğlu A. K., Erdinç O.
Energy, vol.1, pp.1, 2020 (SCI-Expanded)
- XXXVII. **Electrical Layout Optimization of Onshore Wind Farms Based on a Two-Stage Approach**
Deveci K., Barutçu B., ALPMAN E., Tascikaraoglu A., ERDİNÇ O.
IEEE TRANSACTIONS ON SUSTAINABLE ENERGY, vol.11, no.4, pp.2407-2416, 2020 (SCI-Expanded)
- XXXVIII. **Decision making mechanism for a smart neighborhood fed by multi-energy systems considering demand response**
Cicek A., Sengor I., ERENOĞLU A. K., ERDİNÇ O.
ENERGY, vol.208, 2020 (SCI-Expanded)
- XXXIX. **Optimal operation of a multi-energy system considering renewable energy sources stochasticity and**

impacts of electric vehicles

Ata M., Erenoğlu A. K., Şengör İ., Erdinç O., Taşcıkaraoğlu A., Catalao J. P.
ENERGY, vol.186, 2019 (SCI-Expanded)

- XL. **Route optimization of an electric garbage truck fleet for sustainable environmental and energy management**
Erdinc O., Yetilmezsoy K., Erenoğlu A. K., Erdinç O.
JOURNAL OF CLEANER PRODUCTION, vol.234, pp.1275-1286, 2019 (SCI-Expanded)
- XLII. **A New Approach for Grid-Connected Hybrid Renewable Energy System Sizing Considering Harmonic Contents of Smart Home Appliances**
Erenoğlu A. K., Çiçek A., Arıkan O., Erdinç O., Catalao J. P. S.
APPLIED SCIENCES-BASEL, vol.9, no.18, 2019 (SCI-Expanded)
- XLIII. **Effect of electric vehicle parking lots equipped with roof mounted photovoltaic panels on the distribution network**
TURAN M. T., ATEŞ Y., ERDİNÇ O., GÖKALP E., Catalao J. P. S.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.109, pp.283-289, 2019 (SCI-Expanded)
- XLIV. **Optimal Energy Management of EV Parking Lots Under Peak Load Reduction Based DR Programs Considering Uncertainty**
Şengör İ., Erdinç O., Yener B., Taşcıkaraoğlu A., Catalão J. P. S.
IEEE TRANSACTIONS ON SUSTAINABLE ENERGY, vol.10, pp.1034-1043, 2019 (SCI-Expanded)
- XLV. **Bi-Objective Optimization Model for Optimal Placement of Thyristor-Controlled Series Compensator Devices**
Salehizadeh M. R., Koohbijari M. A., Nouri H., Tascikaraoglu A., ERDİNÇ O., Catalao J. P. S.
ENERGIES, vol.12, no.13, 2019 (SCI-Expanded)
- XLVI. **Novel Incentive Mechanism for End-Users Enrolled in DLC-Based Demand Response Programs Within Stochastic Planning Context**
ERDİNÇ O., Tascikaraoglu A., Paterakis N. G., Catalao J. P. S.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol.66, no.2, pp.1476-1487, 2019 (SCI-Expanded)
- XLVII. **Combining the Flexibility From Shared Energy Storage Systems and DLC-Based Demand Response of HVAC Units for Distribution System Operation Enhancement**
Tascikaraoglu A., Paterakis N. G., ERDİNÇ O., Catalao J. P. S.
IEEE TRANSACTIONS ON SUSTAINABLE ENERGY, vol.10, no.1, pp.137-148, 2019 (SCI-Expanded)
- XLVIII. **Power system protection with digital overcurrent relays: A review of non-standard characteristics**
Kilickiran H. C., ŞENGÖR İ., Akdemir H., KEKEZOĞLU B., ERDİNÇ O., PATERAKIS N. G.
ELECTRIC POWER SYSTEMS RESEARCH, vol.164, pp.89-102, 2018 (SCI-Expanded)
- XLIX. **Comprehensive Optimization Model for Sizing and Siting of DG Units, EV Charging Stations, and Energy Storage Systems**
ERDİNÇ O., Tascikaraoglu A., Paterakis N. G., Dursun I., Sinim M. C., Catalao J. P. S.
IEEE TRANSACTIONS ON SMART GRID, vol.9, no.4, pp.3871-3882, 2018 (SCI-Expanded)
- L. **Energy Management of a Smart Railway Station Considering Regenerative Braking and Stochastic Behaviour of ESS and PV Generation**
ŞENGÖR İ., Kilickiran H. C., Akdemir H., KEKEZOĞLU B., ERDİNÇ O., Catalao J. P. S.
IEEE TRANSACTIONS ON SUSTAINABLE ENERGY, vol.9, no.3, pp.1041-1050, 2018 (SCI-Expanded)
- L. **Maximum Permissible Integration Capacity of Renewable DG Units Based on System Loads**
Doğanşahin K., KEKEZOĞLU B., YUMURTACI R., ERDİNÇ O., Catalao J. P. S.
ENERGIES, vol.11, no.1, 2018 (SCI-Expanded)
- LI. **Design and Implementation of an Interactive Interface for Demand Response and Home Energy Management Applications**
YENER B., Tascikaraoglu A., ERDİNÇ O., BAYSAL M., Catalao J. P. S.
APPLIED SCIENCES-BASEL, vol.7, no.6, 2017 (SCI-Expanded)
- LII. **An overview of Demand Response: Key-elements and international experience**

- PATERAKIS N. G., ERDİNÇ O., Catalao J. P. S.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.69, pp.871-891, 2017 (SCI-Expanded)
- LIII. **End-User Comfort Oriented Day-Ahead Planning for Responsive Residential HVAC Demand Aggregation Considering Weather Forecasts**
ERDİNÇ O., Tascikaraoglu A., PATERAKIS N. G., EREN Y., CATALAO J. P. S.
IEEE TRANSACTIONS ON SMART GRID, vol.8, no.1, pp.362-372, 2017 (SCI-Expanded)
- LIV. **Consideration of the Impacts of a Smart Neighborhood Load on Transformer Aging**
PATERAKIS N. G., Pappi I. N., Erdinc O., Godina R., Rodrigues E. M. G., Catalao J. P. S.
IEEE TRANSACTIONS ON SMART GRID, vol.7, no.6, pp.2793-2802, 2016 (SCI-Expanded)
- LV. **Coordinated Operation of a Neighborhood of Smart Households Comprising Electric Vehicles, Energy Storage and Distributed Generation**
PATERAKIS N. G., ERDİNÇ O., PAPPİ I. N., Bakirtzis A. G., CATALAO J. P. S.
IEEE TRANSACTIONS ON SMART GRID, vol.7, no.6, pp.2736-2747, 2016 (SCI-Expanded)
- LVI. **Assessment of Demand-Response-Driven Load Pattern Elasticity Using a Combined Approach for Smart Households**
PATERAKIS N. G., Tascikaraoglu A., ERDİNÇ O., Bakirtzis A. G., Catalao J. P. S.
IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol.12, no.4, pp.1529-1539, 2016 (SCI-Expanded)
- LVII. **Innovative impact assessment of electric vehicles charging loads on distribution transformers using real data**
GODINA R., RODRIGUES E. M. G., PATERAKIS N. G., ERDİNÇ O., CATALAO J. P. S.
ENERGY CONVERSION AND MANAGEMENT, vol.120, pp.206-216, 2016 (SCI-Expanded)
- LVIII. **Compressive Spatio-Temporal Forecasting of Meteorological Quantities and Photovoltaic Power**
Tascikaraoglu A., SANANAJI B. M., CHICCO G., COCINA V., SPERTINO F., ERDİNÇ O., PATERAKIS N. G., CATALAO J. P. S.
IEEE TRANSACTIONS ON SUSTAINABLE ENERGY, vol.7, no.3, pp.1295-1305, 2016 (SCI-Expanded)
- LIX. **Adaptive Protection Scheme for a Distribution System Considering Grid-Connected and Islanded Modes of Operation**
ATEŞ Y., BOYNUEĞRİ A. R., Uzunoglu M., NADAR A., YUMURTACI R., ERDİNÇ O., PATERAKIS N. G., Catalao J. P. S.
ENERGIES, vol.9, no.5, 2016 (SCI-Expanded)
- LX. **Design and Application of a Power Unit to Use Plug-In Electric Vehicles as an Uninterruptible Power Supply**
Sen G., BOYNUEĞRİ A. R., Uzunoglu M., ERDİNÇ O., Catalao J. P. S.
ENERGIES, vol.9, no.3, 2016 (SCI-Expanded)
- LXI. **Multi-Objective Reconfiguration of Radial Distribution Systems Using Reliability Indices**
PATERAKIS N. G., MAZZA A., SANTOS S. F., ERDİNÇ O., CHICCO G., Bakirtzis A. G., CATALAO J. P. S.
IEEE TRANSACTIONS ON POWER SYSTEMS, vol.31, no.2, pp.1048-1062, 2016 (SCI-Expanded)
- LXII. **Overview of insular power systems under increasing penetration of renewable energy sources: Opportunities and challenges**
ERDİNÇ O., PATERAKIS N. G., CATALAO J. P. S.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.52, pp.333-346, 2015 (SCI-Expanded)
- LXIII. **Optimal Household Appliances Scheduling Under Day-Ahead Pricing and Load-Shaping Demand Response Strategies**
PATERAKIS N. G., ERDİNÇ O., Bakirtzis A. G., CATALAO J. P. S.
IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol.11, no.6, pp.1509-1519, 2015 (SCI-Expanded)
- LXIV. **Assessment of electrically-driven vehicles in terms of emission impacts and energy requirements: a case study for Istanbul, Turkey**
Yagcitekin B., Uzunoglu M., Karakas A., ERDİNÇ O.
JOURNAL OF CLEANER PRODUCTION, vol.96, pp.486-492, 2015 (SCI-Expanded)
- LXV. **Load-Following Reserves Procurement Considering Flexible Demand-Side Resources Under High Wind Power Penetration**
PATERAKIS N. G., Erdinc O., Bakirtzis A. G., CATALAO J. P. S.

- IEEE TRANSACTIONS ON POWER SYSTEMS, vol.30, no.3, pp.1337-1350, 2015 (SCI-Expanded)
- LXVI. **Smart Household Operation Considering Bi-Directional EV and ESS Utilization by Real-Time Pricing-Based DR**
Erdinc O., PATERAKIS N. G., MENDES T. D. P., Bakirtzis A. G., CATALAO J. P. S.
IEEE TRANSACTIONS ON SMART GRID, vol.6, no.3, pp.1281-1291, 2015 (SCI-Expanded)
- LXVII. **A new perspective for sizing of distributed generation and energy storage for smart households under demand response**
ERDİNÇ O., PATERAKIS N. G., Pappi I. N., Bakirtzis A. G., CATALAO J. P. S.
APPLIED ENERGY, vol.143, pp.26-37, 2015 (SCI-Expanded)
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- Erdinç O., Catalao J. P., FP7 Project, Smart and Sustainable Insular Electricity Grids Under Large Scale Renewable Integration SINGULAR, 2012 - 2015

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Metrics

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Awards

ERDİNÇ O., IEEE Senior Member, IEEE (The Institute of Electrical and Electronics Engineers), May 2016

Non Academic Experience

VARYAP Varlıbaşlar İnşaat Yatırımları ve Elektrik Üretim A.Ş.