

Prof. Ozan ERDİNÇ

Personal Information

Office Phone: +90 212 383 5844 Extension: 5844

Web: <http://avesis.yildiz.edu.tr/oerdinc>

Address: Yıldız Teknik Üniversitesi Davutpaşa Kampüsü, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, C-307, 34220, Esenler, İSTANBUL

International Researcher IDs

ORCID: 0000-0003-0635-9033

ScopusID: 25647360400

Yoksis Researcher ID: 47727

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 GEBİP)* 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. **Impacts of Distribution-Level Joint Scheduling of Electric Vehicle Battery Charging and Swapping Stations on Reliability Improvement**
Kursat Aktar A., Tascikaraoglu A., ERDİNÇ O., Guner S.
IEEE Transactions on Industry Applications, 2024 (SCI-Expanded)
- IV. **A Novel Closed-Loop Frequency Control Approach for Wireless Power Transfer Systems in On-Road Electric Vehicles**
Ağçal A., Özçira Özklıç S., Gökçek T., Bekiroğlu K. N., Obdan A. H., Erdoğan O.
IEEE Transactions on Intelligent Transportation Systems, vol.24, no.12, pp.15300-15309, 2023 (SCI-Expanded)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- 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., Erdoğan 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. **Resiliency-Sensitive Decision Making Mechanism for a Residential Community Enhanced with Bi-Directional Operation of Fuel Cell Electric Vehicles**
Erdoğan F. G., ÇİÇEK A., ERDİNÇ O.
ENERGIES, vol.15, no.22, 2022 (SCI-Expanded)
- XI. **Management strategy for V2X equipped EV parking lot considering uncertainties with LSTM Model**
Güldorum H. C., Şengör İ., Erdoğan O.
ELECTRIC POWER SYSTEMS RESEARCH, vol.212, 2022 (SCI-Expanded)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **Decision-making framework for power system with RES including responsive demand, ESSs, EV aggregator and dynamic line rating as multiple flexibility resources**
Erđinç F., Çiçek A., ERDİNÇ O., YUMURTACI R., Oskouei M. Z., Mohammadi-Ivatloo B.
Electric Power Systems Research, vol.204, 2022 (SCI-Expanded)
- XIX. **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)
- XX. **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)
- XXI. **A Topological Overview of Microgrids: from Maturity to the Future**
Erenođlu A. K., Sancar S., Erđinç O., Bađrıyanık M.
Turkish Journal Of Electrical Engineering And Computer Sciences, vol.1, pp.1-2, 2021 (SCI-Expanded)
- XXII. **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)
- XXIII. **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)
- 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., Erđinç O.
SUSTAINABLE ENERGY GRIDS & NETWORKS, vol.28, pp.100540, 2021 (SCI-Expanded)
- XXV. **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)
- XXVI. **Post-Event Restoration Strategy for Coupled Distribution-Transportation System Utilizing Spatiotemporal Flexibility of Mobile Emergency Generator and Mobile Energy Storage System**
Erenođlu A. K., Erđinç O.

- Electric Power Systems Research, vol.1, pp.1, 2021 (SCI-Expanded)
- XXVII. **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)
- 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. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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., Taşcıkaraoğlu A., Catalao J.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.01420615, pp.1, 2021 (SCI-Expanded)
- XXXIII. **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)
- 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. **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)
- 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. **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)
- XXXVIII. **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)
- XXXIX. **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)

- XL. **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)
- XLII. **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)
- XLIII. **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)
- 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. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **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)
- LI. **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)
- LII. **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)
- LIII. **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)

- LIII. **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)
- LIV. **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)
- LV. **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)
- LVI. **Coordinated Operation of a Neighborhood of Smart Households Comprising Electric Vehicles, Energy Storage and Distributed Generation**
PATERAKIS N. G., ERDİNÇ O., PAPP I. N., Bakirtzis A. G., CATALAO J. P. S.
IEEE TRANSACTIONS ON SMART GRID, vol.7, no.6, pp.2736-2747, 2016 (SCI-Expanded)
- LVII. **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)
- LVIII. **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)
- LIX. **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)
- LX. **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)
- LXI. **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)
- LXII. **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)
- 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. **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)
- LXV. **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)

- 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. **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)
- LXVIII. **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)
- LXIX. **Qualification and Quantification of Reserves in Power Systems Under High Wind Generation Penetration Considering Demand Response**
PATERAKIS N. G., Erdinc O., Bakirtzis A. G., CATALAO J. P. S.
IEEE TRANSACTIONS ON SUSTAINABLE ENERGY, vol.6, no.1, pp.88-103, 2015 (SCI-Expanded)
- LXX. **A new perspective in grid connection of electric vehicles: Different operating modes for elimination of energy quality problems**
BOYNUEĞRİ A. R., UZUNOĞLU M., Erdinc O., GÖKALP E.
APPLIED ENERGY, vol.132, pp.435-451, 2014 (SCI-Expanded)
- LXXI. **Economic impacts of small-scale own generating and storage units, and electric vehicles under different demand response strategies for smart households**
Erdinc O.
APPLIED ENERGY, vol.126, pp.142-150, 2014 (SCI-Expanded)
- LXXII. **Real-time performance analysis of an optimally sized hybrid renewable energy conversion unit**
ERDİNÇ O., ELMA O., Uzunoglu M., SELAMOĞULLARI U. S.
ENERGY AND BUILDINGS, vol.75, pp.419-429, 2014 (SCI-Expanded)
- LXXIII. **An adaptive load dispatching and forecasting strategy for a virtual power plant including renewable energy conversion units**
Tascikaraoglu A., ERDİNÇ O., Uzunoglu M., Karakas A.
APPLIED ENERGY, vol.119, pp.445-453, 2014 (SCI-Expanded)
- LXXIV. **A new perspective in optimum sizing of hybrid renewable energy systems: Consideration of component performance degradation issue**
ERDİNÇ O., UZUNOĞLU M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.37, no.14, pp.10479-10488, 2012 (SCI-Expanded)
- LXXV. **Optimum design of hybrid renewable energy systems: Overview of different approaches**
ERDİNÇ O., UZUNOĞLU M.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.16, no.3, pp.1412-1425, 2012 (SCI-Expanded)
- LXXVI. **Experimental performance assessment of an online energy management strategy for varying renewable power production suppression**
Erdinç O., Elma O., Uzunoglu M., Selamoğulları U. S., Vural B., Ugur E., Boynueğri A. R., Dusmez S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.37, pp.4737-4748, 2012 (SCI-Expanded)
- LXXVII. **The importance of detailed data utilization on the performance evaluation of a grid-independent hybrid renewable energy system**
ERDİNÇ O., UZUNOĞLU M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.36, no.20, pp.12664-12677, 2011 (SCI-Expanded)
- LXXVIII. **Power quality assessment of wind turbines and comparison with conventional legal regulations: A case study in Turkey**
Tascikaraoglu A., Uzunoglu M., Vural B., ERDİNÇ O.
APPLIED ENERGY, vol.88, no.5, pp.1864-1872, 2011 (SCI-Expanded)

- LXXXIX. **Recent trends in PEM fuel cell-powered hybrid systems: Investigation of application areas, design architectures and energy management approaches**
ERDİNÇ O., UZUNOĞLU M.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.14, no.9, pp.2874-2884, 2010 (SCI-Expanded)
- LXXX. **Parallel combination of FC and UC for vehicular power systems using a multi-input converter-based power interface**
Vural B., ERDİNÇ O., UZUNOĞLU M.
ENERGY CONVERSION AND MANAGEMENT, vol.51, no.12, pp.2613-2622, 2010 (SCI-Expanded)
- LXXXI. **Fuel cell and ultra-capacitor hybridization: A prototype test bench based analysis of different energy management strategies for vehicular applications**
Vural B., BOYNUEĞRİ A. R., NAKİR İ., ERDİNÇ I., Balıkcı A., UZUNOĞLU M., GORGUN H., DUSMEZ S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.20, pp.11161-11171, 2010 (SCI-Expanded)
- LXXXII. **Energy management of an FC/UC hybrid vehicular power system using a combined neural network-wavelet transform based strategy**
ATEŞ Y., ERDİNÇ O., Uzunoglu M., Vural B.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.2, pp.774-783, 2010 (SCI-Expanded)
- LXXXIII. **A wavelet-fuzzy logic based energy management strategy for a fuel cell/battery/ultra-capacitor hybrid vehicular power system**
ERDİNÇ O., VURAL B., UZUNOĞLU M.
JOURNAL OF POWER SOURCES, vol.194, no.1, pp.369-380, 2009 (SCI-Expanded)
- LXXXIV. **A fuzzy logic based supervisory controller for an FC/UC hybrid vehicular power system**
EREN Y., ERDİNÇ O., GORGUN H., UZUNOĞLU M., VURAL B.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.34, no.20, pp.8681-8694, 2009 (SCI-Expanded)
- LXXXV. **Modeling and analysis of an FC/UC hybrid vehicular power system using a wavelet-fuzzy logic based load sharing and control algorithm**
ERDİNÇ O., Vural B., Uzunoglu M., ATEŞ Y.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.34, no.12, pp.5223-5233, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Güneş Kolektörlü ve Elektrikli Şofbenli Bir Akıllı Evin Talep Cevabı Programı Kapsamında Enerji Yönetimi**
Sancar S., Erenoğlu A. K., Şengör İ., Erdinç O.
Avrupa Bilim ve Teknoloji Dergisi, no.19, pp.1, 2020 (Peer-Reviewed Journal)
- II. **Day-ahead charging operation of electric vehicles with on-site renewable energy resources in a mixed integer linear programming framework**
Sengor I., ERENOĞLU A. K., ERDİNÇ O., Tascikaraoglu A., Catalao J. P. S.
IET SMART GRID, vol.3, no.3, pp.367-375, 2020 (ESCI)
- III. **POMPALANMIŞ SU TABANLI ENERJİ DEPOLAMA ÜNİTESİ KULLANIMINA VE DİNAMİK FİYATLANDIRMAYA DAYANAN BİR KAZANÇ OPTİMİZASYONU YAKLAŞIMI**
TAŞCIKARAOĞLU A., ERDİNÇ O.
Eskişehir Osmangazi Üniversitesi Mühendislik ve Mimarlık Fakültesi Dergisi, vol.26, pp.74-87, 2018 (Peer-Reviewed Journal)
- IV. **Pik güç azaltımı tabanlı talep cevabı stratejisi ve yük faktörümaksimizasyonu amaçlı bir elektrikli araç toplu park bölgesi enerjyönetim stratejisi**
ERDİNÇ O., TAŞCIKARAOĞLU A.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.24, pp.824-830, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Pathways to a Smarter Power System**
Erdoğan O., Taşçıkaraoğlu A.
Academic Press , California, 2019
- II. **History of Electricity**
Erenoğlu A. K., Erdoğan O., Taşçıkaraoğlu A.
in: Pathways to a Smarter Power System, Ozan Erdoğan,Akın Taşçıkaraoğlu, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.1-45, 2019
- III. **Optimization in Renewable Energy Systems - Recent Perspectives**
Erdoğan O.
Butterworth-Heinemann , Oxford, 2017
- IV. **Reserves and Demand Response Coping with Renewables Uncertainty**
Paterakis N., Erdoğan O., Shafie-Khah M., Forushani H.
in: Smart and Sustainable Power Systems: Operations, Planning and Economics of Insular Electricity Grids, Joao Catalao, Editor, CRC, New York , New-York, pp.100-124, 2015
- V. **Overview of Insular Power Systems: Challenges and Opportunities**
Erdoğan O., Paterakis N.
in: Smart and Sustainable Power Systems: Operations, Planning and Economics of Insular Electricity Grids, Joao Catalao, Editor, CRC, New York , New-York, pp.1-24, 2015
- VI. **Akıllı Şebekelere Giriş**
Uzunoğlu M., Erdoğan O.
Nobel Yayın Dağıtım, İstanbul, 2013

Refereed Congress / Symposium Publications in Proceedings

- I. **Identification of Critical Feeders in Integrated Electricity and District Heating Networks for Decentralized Implementation of Proactive Schemes**
Oskouei M. Z., ERENOĞLU A. K., ERDİNÇ O.
25th IEEE International Conference on Industrial Technology, ICIT 2024, Bristol, England, 25 - 27 March 2024
- II. **Production Cost Minimization Considering Integrated Carbon and Electricity Trading System**
TAŞ E., GÖKÇEK T., ERDİNÇ O., ATEŞ Y.
INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING(ELECO 2023), Bursa, Turkey, 30 November - 02 December 2023
- III. **A New Approach for Distribution System Reconfiguration with PV, ESS and EV Availability**
TOPÇUOĞLU Y., GÖKÇEK T., ATEŞ Y., ERDİNÇ O.
INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING(ELECO 2023), Bursa, Turkey, 30 November - 02 December 2023
- IV. **Tri-level TSO/DSO Coordination Approach Considering Active Interaction with the Flexibility of Microgrid Aggregators**
GÖKÇEK T., ERDİNÇ O.
2023 12th International Conference on Power Science and Engineering (ICPSE 2023), Eskişehir, Turkey, 22 - 24 September 2023
- V. **Resilience-Oriented Restoration Strategy of Networked Microgrids Considering Grid Topology Against Data Intrusion Attacks**
YALDIZ A., GÖKÇEK T., ERDİNÇ O., ATEŞ Y.
2023 International Conference on Smart Energy Systems and Technologies (SEST), Muğla, Turkey, 4 - 06 September 2023
- VI. **ELEKTRİK GÜÇ SİSTEMLERİNDE TOPOLOJİ BELİRLEMESİ ÜZERİNE ARAŞTIRMA**
YALDIZ A., GÖKÇEK T., ERDİNÇ O., ATEŞ Y.

5. Uluslararası Mühendislik Bilimleri ve Multidisipliner Yaklaşımlar Kongresi, İstanbul, Turkey, 25 - 26 February 2023, pp.83-92
- VII. **BATARYA TABANLI ENERJİ DEPOLAMA SİSTEMLERİNİN DAĞITIM ŞEBEKESİNDE KULLANIMINA YÖNELİK GENEL BİR BAKIŞ**
YILDIZ H., GÖKÇEK T., ERDİNÇ O., ATEŞ Y.
5. Uluslararası Mühendislik Bilimleri ve Multidisipliner Yaklaşımlar Kongresi, İstanbul, Turkey, 25 - 26 February 2023, pp.75-82
- VIII. **Elektrik Güç Sistemlerinde Topoloji Belirlemesi Üzerine Araştırma**
YALDIZ A., GÖKÇEK T., ERDİNÇ O., ATEŞ Y.
5th International Congress on Engineering Sciences and Multidisciplinary Approaches, İstanbul, Turkey, 25 - 26 February 2023
- IX. **Batarya Tabanlı Enerji Depolama Sistemlerinin Dağıtım Şebekesinde Kullanımına Yönelik Genel Bir Bakış**
YILDIZ H., GÖKÇEK T., ERDİNÇ O., ATEŞ Y.
5th International Congress on Engineering Sciences and Multidisciplinary Approaches, İstanbul, Turkey, 25 February 2023
- X. **Multi-Objective EV Charging and Comfort Management Considering V2G Functionality and Distribution System Constraints**
Turkoglu A. S., GÜLDORUM H. C., ERDİNÇ O.
11th International Conference on Smart Grid, icSmartGrid 2023, Paris, France, 4 - 07 June 2023
- XI. **Scheduling Electric Vehicle Charging Considering Battery Charging and Swapping Operations**
Aktar A. K., Tascikaraoglu A., ERDİNÇ O., Guner S.
2023 International Conference on Smart Energy Systems and Technologies, SEST 2023, Muğla, Turkey, 4 - 06 September 2023
- XII. **Evaluating LMP Forecasting with LSTM Networks: A Deep Learning Approach to Analyzing Electricity Prices During Unpredictable Events**
Yildirim B. E., Yildiz S., Turkoglu A. S., ERDİNÇ O., BOYNUEĞRİ A. R.
5th IEEE Global Power, Energy and Communication Conference, GPECOM 2023, Cappadocia, Turkey, 14 - 16 June 2023, pp.477-482
- XIII. **Energy Management Strategy for a Microgrid Including All-in-One Electric Vehicle Station, Renewable Energy and Demand Response**
Cicek A., Erenoglu A. K., Tascikaraoglu A., ERDİNÇ O.
2023 International Conference on Smart Energy Systems and Technologies, SEST 2023, Muğla, Turkey, 4 - 06 September 2023
- XIV. **Optimum Charging Scheduling of an EV PL owning Smart Reservation System**
GÖKÇEK T., GÜNER S., SADREDDINI Z., ERDİNÇ O.
2022 11th International Conference on Power Science and Engineering (ICPSE 2022), Eskişehir, Turkey, 23 September 2022
- XV. **Comparative Realistic Objectives Oriented Optimization Framework for EV Charging Scheduling in a Distribution System**
GÜLDORUM H. C., Erenoglu A. K., ERDİNÇ O., Sengor I.
3rd International Conference on Smart Grid and Renewable Energy, SGRE 2022, Doha, Qatar, 20 - 22 March 2022
- XVI. **Energy management of a port serving fuel cell and battery based hybrid green ferries**
Ozdemir H., GÜLDORUM H. C., ERDİNÇ O., Sengor I.
4th International Conference on Smart Energy Systems and Technologies, SEST 2021, Virtual, Vaasa, Finland, 6 - 08 September 2021
- XVII. **Uncertainty-Aware Decision Making in Power Systems Including Energy Storage, Dynamic Line Rating and Responsive Demand as Multiple Flexibility Resources**
Erdinc F. G., Cicek A., ERDİNÇ O., YUMURTACI R.
4th International Conference on Smart Energy Systems and Technologies (SEST), ELECTR NETWORK, 6 - 08 September 2021

- XVIII. **Charging Management System for Electric Vehicles considering Vehicle-to-Vehicle (V2V) Concept Araçlar Arası Enerji Aktarımını Dikkate Alan Elektrikli Araçlar için Şarj Yönetim Sistemi**
GÜLDORUM H. C., Şengör İ., ERDİNÇ O.
12th International Conference on Electrical and Electronics Engineering, ELECO 2020, Bursa, Turkey, 26 - 28 November 2020, pp.188-192
- XIX. **Development of a Smart Thermostat Controller for Direct Load Control Based Demand Response Applications**
Yener B., Erenoğlu A. K., Şengör İ., Erdinç O., Taşcıkaraoğlu A., Catalão J. P. S.
2nd International Conference on Smart Energy Systems and Technologies, SEST 2019, Porto, Portugal, 9 - 11 September 2019, pp.1-5
- XX. **Effect of Distributed Generation Based Campus Model Combined with Electric Vehicle Charging Stations on the Distribution Network**
TURAN M. T., ATEŞ Y., ERDİNÇ O., GÖKALP E.
2019 International Conference on Smart Energy Systems and Technologies (SEST), Porto, Portugal, Portugal, 9 - 11 September 2019
- XXI. **Effect of distributed generation based campus model combined with electric vehicle charging stations on the distribution network considering optimal renewable energy power plant design**
Turan M. T., Ateş Y., Erdinç O., Gökalp E.
2nd International Conference on Smart Energy Systems and Technologies, SEST 2019, Porto, Portugal, 9 - 11 September 2019, pp.1-5
- XXII. **An Interoperability Platform for Electric Vehicle Charging Service Considering Dual System Operator and Electric Vehicle Owner Sides**
Güldorum H. C., Erenoğlu A. K., Şengör İ., Erdinç O., Catalão J. P. S.
2nd International Conference on Smart Energy Systems and Technologies, SEST 2019, Porto, Portugal, 9 - 11 September 2019, pp.1-6
- XXIII. **An Interoperability Platform for Electric Vehicle Charging Service Considering Dual System Operator and Electric Vehicle Owner Sides**
GÜLDORUM H. C., ERENOĞLU A. K., ŞENGÖR İ., ERDİNÇ O., Catalao J. P. S.
2nd International Conference on Smart Energy Systems and Technologies, SEST 2019, Porto, Portugal, 9 - 11 September 2019
- XXIV. **User-Comfort Oriented Bidding Strategy for Electric Vehicle Parking Lots**
Şengör İ., Çiçek A., Erenoğlu A. K., Erdinç O., Taşcıkaraoğlu A., Catalão J. P. S.
13th IEEE PES PowerTech Conference, Milan, Italy, 23 - 27 June 2019, pp.1-6
- XXV. **Optimal Operation of a Smart Multi-Energy Neighborhood**
Ata M., Erenoğlu A. K., Şengör İ., Erdinç O., Taşcıkaraoğlu A., Catalão J. P. S.
13th IEEE PES PowerTech Conference, Milan, Italy, 23 - 27 June 2019, pp.1-5
- XXVI. **Economic Operation of a Micro-Grid Considering Demand Side Flexibility and Common ESS Availability**
Erenoğlu A. K., Şengör İ., Erdinç O., Taşcıkaraoğlu A., Catalão J. P. S.
8th IEEE PES International Conference on Innovative Smart Grid Technologies — ISGT Europe 2018, Sarajevo, Bosnia And Herzegovina, 21 - 25 October 2018, pp.1-6
- XXVII. **Economic Impact Analysis of Load Shifting in a Smart Household**
Farzambehboudi Y., Erdinç O., Boynueğri A. R., Ucu L., Öz M. A. N.
2018 International Conference on Smart Energy Systems and Technologies SEST 2018, Sevilla, Spain, 12 - 14 September 2018, pp.1-5
- XXVIII. **Optimal Coordination of EV Charging through Aggregators under Peak Load Limitation Based DR Considering Stochasticity**
Şengör İ., Erenoğlu A. K., Erdinç O., Taşcıkaraoğlu A., Catalão J. P. S.
2018 International Conference on Smart Energy Systems and Technologies (SEST), Sevilla, Spain, 10 - 12 September 2018, pp.1-6
- XXIX. **Scenario Based Analysis of an EV Parking Lot Equipped with Roof-Top PV Unit within Distribution**

Systems

Alkan B., Uzun B., Erenođlu A. K., Erdinç O., Turan M. T., Catalão J. P. S.

2018 International Conference on Smart Energy Systems and Technologies (SEST), Sevilla, Spain, 10 - 12 September 2018, pp.1-5

- XXX. **Shared Energy Storage and Direct Load Control for Improved Flexibility of Distribution System Operation**
Tascikaraoglu A., ERDİNÇ O., Catalao J. P. S.
53rd International Universities Power Engineering Conference (UPEC), Glasgow, United Kingdom, 4 - 07 September 2018
- XXXI. **Ortak Enerji Depolama Sistemlerinin Elektrik Güç Sistemlerinde Talep Cevabı Konsepti İçin Kullanılması**
Çiçek A., Şengör İ., Erdinç O.
Elektrik Elektronik Mühendisliği Kongresi - EEMKON 2017, İstanbul, Turkey, 16 - 18 November 2017, pp.138-147
- XXXII. **Rüzgar Türbinlerinin Matlab GUI Ortamında Fizibilite Analizi**
Erenođlu A. K., Sönmez B. N., Kekezođlu B., Erdinç O.
9. Yenilenebilir Enerji Kaynakları Sempozyumu ve Sergisi, Antalya, Turkey, 3 - 05 November 2017, pp.1-4
- XXXIII. **Optimal sizing and siting of distributed generation and EV charging stations in distribution systems**
Erdinç O., Taşcıkaraođlu A., Paterakis N. G., Dursun İ., Sinim M. C., Catalao J. P. S.
7th IEEE PES International Conference on Innovative Smart Grid Technologies — ISGT Europe 2017, Turin, Italy, 26 - 29 September 2017, pp.1-6
- XXXIV. **Talep Cevabı ve Mikro Şebekelerdeki Rolü**
Erenođlu A. K., Erdinç O.
1. Ulusal Elektrik Enerjisi Dönüşümü Kongresi, Elazığ, Turkey, 21 - 22 September 2017, pp.27-32
- XXXV. **An energy credit based incentive mechanism for the direct load control of residential HVAC systems incorporation in day-ahead planning**
Erdinç O., Taşcıkaraođlu A., Paterakis N., Catalao J. P.
2017 IEEE Manchester PowerTech, Manchester, United Kingdom, 18 - 22 June 2017, pp.1-6
- XXXVI. **The role of residential HVAC units in demand side flexibility considering end-user comfort**
Erdinç O., Taşcıkaraođlu A., Eren Y., Paterakis N., Gibescu M., Catalao J. P.
2016 51st International Universities Power Engineering Conference (UPEC), Coimbra, Portugal, 6 - 09 September 2016, pp.1-6
- XXXVII. **Optimal operation of smart houses by a real-time rolling horizon algorithm**
Paterakis N. G., Pappi I. N., Catalao J. P. S., Erdinç O.
2016 IEEE Power and Energy Society General Meeting (PESGM), Massachusetts, United States Of America, 17 - 21 July 2016, pp.1-5
- XXXVIII. **A short-term spatio-temporal approach for photovoltaic power forecasting**
Tascikaraoglu A., Sanandaji B. M., Chicco G., Cocina V., Spertino F., Erdinç O., Paterakis N. G., Catalao J. P. S.
2016 Power Systems Computation Conference (PSCC), Genoa, Italy, 20 - 24 June 2016, pp.1-7
- XXXIX. **An EMD-ANN based prediction methodology for DR driven smart household load demand**
Tascikaraoglu A., Paterakis N. G., Catalao J. P. S., Erdinç O., Bakirtzis A. G.
2015 18th International Conference on Intelligent System Application to Power Systems (ISAP), Porto, Portugal, 11 - 16 September 2015, pp.1-6
- XL. **Electric vehicles home charging impact on a distribution transformer in a Portuguese island**
Godina R., Paterakis N. G., Erdinç O., Paterakis E. M. G., Catalao J. P. S.
2015 International Symposium on Smart Electric Distribution Systems and Technologies (EDST), Vienna, Austria, 8 - 11 September 2015, pp.74-79
- XLI. **Multi-Objective Distribution System Reconfiguration for Reliability Enhancement and Loss Reduction**
Paterakis N. G., Santos S. F., Catalão J. P. S., Mazza A., Chicco G., Erdinç O., Bakirtzis A. G.
2015 IEEE Power & Energy Society General Meeting, Colorado, United States Of America, 26 - 30 July 2015, pp.1-5
- XLII. **Evaluation of flexible demand-side load-following reserves in power systems with high wind generation penetration**

- Paterakis N. G., Catalão J. P. S., Ntomaris A. V., Erdinç O.
IEEE Power Tech 2015 Conference, Eindhoven, Netherlands, 29 June - 02 July 2015, pp.1-6
- XLIII. **Distribution system operation enhancement through household consumption coordination in a dynamic pricing environment**
Paterakis N. G., Santos S. F., Medeiros M. F., Catalão J. P. S., Erdinç O.
IEEE Power Tech 2015 Conference, Eindhoven, Netherlands, 29 June - 02 July 2015, pp.1-6
- XLIV. **Optimal operational and economical coordination strategy for a smart neighborhood**
Paterakis N. G., Pappi I. N., Catalão J. P. S., Erdinç O.
IEEE Power Tech 2015 Conference, Eindhoven, Netherlands, 29 June - 02 July 2015, pp.1-6
- XLV. **Optimal daily operation of a smart-household under dynamic pricing considering thermostatically and non-thermostatically controllable appliances**
Paterakis N. G., Medeiros M. F., Catalao J. P. S., Siaraka A., Bakirtzis A. G., Erdinç O.
2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG), Riga, Latvia, 11 - 13 May 2015, pp.389-393
- XLVI. **Demand response driven load pattern elasticity analysis for smart households**
Paterakis N. G., Catalao J. P. S., Tascikaraoglu A., Bakirtzis A. G., Erdinç O.
2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG), Riga, Latvia, 11 - 13 May 2015, pp.399-404
- XLVII. **Smart Households and Home Energy Management Systems with Innovative Sizing of Distributed Generation and Storage for Customers**
Erdinç O., Paterakis N. G., Catalão J. P. S., Pappi I. N., Bakirtzis A. G.
48th Hawaii International Conference on System Sciences — HICSS 2015 (technically co-sponsored by IEEE), Hawaii, United States Of America, 5 - 08 January 2015, pp.1462-1471
- XLVIII. **Impact of EV Charging-at-work on an Industrial Client Distribution Transformer in a Portuguese Island**
GODINA R., PATERAKIS N. G., ERDİNÇ O., RODRIGUES E. M. G., CATALAO J. P. S.
Australasian Universities Power Engineering Conference (AUPEC), Wollongong, Australia, 27 - 30 September 2015
- XLIX. **Coordination of Smart-Household Activities for the Efficient Operation of Intelligent Distribution Systems**
Paterakis N. G., Santos S. F., Catalão J. P. S., Erdinç O., Bakirtzis A. G.
The 5th IEEE PES Innovative Smart Grid Technologies (ISGT) European 2014 Conference, İstanbul, Turkey, 12 - 15 October 2014, pp.1-6
- L. **A Control Algorithm for the Stable Operation of Interfaced Converters in Microgrid Systems**
Pouresmaeil E., Mehrasa M., Jorgensen B. N., Erdinç O., Catalão J. P. S.
The 5th IEEE PES Innovative Smart Grid Technologies (ISGT) European 2014 Conference, İstanbul, Turkey, 12 - 15 October 2014, pp.1-6
- LI. **An ANFIS Based Assessment of Demand Response Driven Load Pattern Elasticity**
Erdinç O., Paterakis N. G., Catalão J. P. S., Bakirtzis A. G.
2014 IEEE PES General Meeting | Conference & Exposition, Maryland, United States Of America, 27 - 31 July 2014, pp.1-5
- LII. **Impact of Electric Vehicle V2G Operation and Demand Response Strategies for Smart Households**
Erdinç O., Mendes T. D. P., Catalão J. P. S.
IEEE PES Transmission&Distribution Conference, Illinois, United States Of America, 14 - 17 April 2014, pp.1-5
- LIII. **Optimum Generation Scheduling Based Dynamic Price Making for Demand Response in a Smart Power Grid**
Paterakis N. G., Erdinç O., Catalão J. P. S., Bakirtzis A. G.
5th Doctoral Conference on Computing, Electrical and Industrial Systems, Lisbon, Portugal, 7 - 09 April 2014, pp.1-8
- LIV. **Smart insular grids: Opportunities and challenges**
Erdinc O., Catalão J. P. S., Uzunoglu M., BOYNUEĞRİ A. R.
2013 3rd International Conference on Electric Power and Energy Conversion Systems, EPECS 2013, İstanbul,

Turkey, 2 - 04 October 2013

- LV. **Hibrit Alternatif Enerji Sistemlerinde Kullanılan Enerji Depolama Üniteleri**
Erdoğan O., Uzunoğlu M., Vural B.
Elektrik-Elektronik Bilgisayar Sempozyumu (FEEB 2011), Elazığ, Turkey, 5 - 07 October 2011, pp.116-121
- LVI. **İstanbul'un Finans Merkezi Oluşum Sürecinde Enerji Verimliliği ve Altyapı Analizi**
Erdoğan O., Uzunoğlu M., Boynueğri A. R.
IV. ENERJİ VERİMLİLİĞİ VE KALİTESİ SEMPOZYUMU, Kocaeli, Turkey, 12 - 13 May 2011, pp.1-5
- LVII. **İSTANBUL UN FİNANS MERKEZİ OLUŞUM SÜRECİNDE ENERJİ VERİMLİLİĞİ VE ALTYAPI ANALİZİ**
ERDİNÇ O., UZUNOĞLU M., BOYNUEĞRİ A. R.
EVK 2011, Kocaeli, Turkey, 12 - 13 May 2011, pp.233-237
- LVIII. **Small scale test bench based performance analysis of a fuel cell/ultra-capacitor hybrid vehicular power system with an improved power conditioning unit**
Vural B., Uzunoğlu M., Düşmez S., Uğur E., Erdoğan O.
2010 IEEE International Conference on Sustainable Energy Technologies, ICSET 2010, Kandy, Sri Lanka, 6 - 09 December 2010
- LIX. **A dynamic ultra-capacitor model for vehicular applications**
Vural B., Uzunoğlu M., Erdoğan O., Onar O.
2009 International Conference on Clean Electrical Power, ICCEP 2009, Capri, Italy, 9 - 11 June 2009, pp.595-598
- LX. **A wavelet-ADALINE network based load sharing and control algorithm for a FC/UC hybrid vehicular power system**
ATEŞ Y., Uzunoglu M., ERDİNÇ O., Vural B.
2009 International Conference on Clean Electrical Power, ICCEP 2009, Capri, Italy, 9 - 11 June 2009, pp.591-594
- LXI. **A dynamic lithium-ion battery model considering the effects of temperature and capacity fading**
ERDİNÇ O., Vural B., Uzunoglu M.
2009 International Conference on Clean Electrical Power, ICCEP 2009, Capri, Italy, 9 - 11 June 2009, pp.383-386
- LXII. **Hibrit bir YH/UK Taşıt Güç Sisteminin Yapay Sinir Ağları ile Kontrolü**
Ateş Y., Erdoğan O., Uzunoğlu M., Vural B.
Elektrik - Elektronik Ve Bilgisayar Mühendisliği Sempozyumu ELECO 2008, Bursa, Turkey, 26 - 30 November 2008, pp.153-157
- LXIII. **Genetik-Bulanık Mantık Tabanlı Kontrol Algoritması Kullanılarak Tasıt Uygulamaları için Hibrit YH/UK Güç Sisteminin Modellenmesi ve Analizi**
Erdoğan O., Uzunoglu M., Vural B.
Elektrik, Elektronik ve Bilgisayar Mühendisliği Sempozyumu (ELECO), Bursa, Turkey, 26 - 30 November 2008, pp.148-157
- LXIV. **Dalgacık Dönüşümü/Bulanık Mantık Tabanlı Enerji Yönetim Stratejisi Kullanılarak Yakıt Hücreli/Ultra-kapasitörlü Hibrit Tasıt Sisteminin Modellenmesi ve Analizi**
Erdoğan O., Ates Y., Uzunoglu M., Vural B.
II. Ulusal Güneş ve Hidrojen Enerjisi Kongresi (UGHEK), Eskişehir, Turkey, 12 - 13 June 2008, pp.148-166

Supported Projects

Erdoğan O., Erenoğlu A. K., Other International Funding Programs, The Impact Analysis of Electric Vehicle Integration and Distributed Generation in a Real Distribution System in Türkiye, 2023 - 2024

Erenoğlu A. K., Erdoğan O., Project Supported by Higher Education Institutions, 06 Şubat 2023 Kahramanmaraş (Pazarcık ve Elbistan) Depremlerinin Oluşturduğu Etkilerin Çok Disiplinli Araştırmalarla Ön Değerlendirmesinin Yapılması-Hatay İli Örneği, 2023 - 2024

Erenoğlu A. K., Erdoğan O., Çiçek A., TUBITAK Project, Hepsi Bir Arada Elektrikli Araç İstasyonu, Yenilenebilir Enerji Kaynakları Ve Esnek Yükleri İçeren Bir Mikro Şebekenin Enerji Yönetimi İçin İki Seviyeli Stokastik Tabanlı Optimizasyon Modelinin Geliştirilmesi, 2023 - 2023

Erdoğan O., Taşcıkaraoğlu A., Arslan M. S., TUBITAK Project, Development of an Energy Management Approach Based on

Shared Energy Storage System for Consumers Including Renewable Energy Resources, 2018 - 2019

Erdiñç O., Taşcıkaraođlu A., Eren Y., TUBITAK Project, Development and implementation of a novel user-comfort-driven approach based on weather forecasts for using residential HVAC units in demand response applications, 2017 - 2018

Erdiñç O., Taşcıkaraođlu A., TUBITAK Project, Coordinated Operation of a Neighborhood of Smart Households under Demand Response Strategies, 2015 - 2018

Erdiñç O., A. Ş. B. E. D., Project Supported by Other Private Institutions, Dađıtıma Gml Sistemlerin Etki Analizi DAGSİS, 2015 - 2016

Erdiñç O., Catalao J. P., FP7 Project, Smart and Sustainable Insular Electricity Grids Under Large Scale Renewable Integration SINGULAR, 2012 - 2015

Erdiñç O., Uzunođlu M., Project Supported by Higher Education Institutions, Optimization, Design and Application of a Hybrid Wind Turbine/Photovoltaic/Fuel Cell/Battery System for Stand Alone Applications, 2011 - 2013

Erdiñç O., Selamođulları U. S., ELMA O., Project Supported by Higher Education Institutions, System Design and Application of a Renewable Energy System for the Supply of Electric Energy Demand of a Residential Unit Considering Load and Supply Variability, 2010 - 2012

Erdiñç O., Uzunođlu M., Project Supported by Higher Education Institutions, Design and Application of Fuel Cell/Ultra-capacitor/Battery Hybridization for Electric Vehicles, 2009 - 2011

Uzunođlu M., TUBITAK Project, Yakıt Hcreli ve Ultra kapasitrl Hibrit Tasıtlar İin Enerji Ynetim Sisteminin Tasarım ve Uygulaması, 2007 - 2010

Metrics

Publication: 171

Citation (WoS): 2914

Citation (Scopus): 4000

H-Index (WoS): 28

H-Index (Scopus): 32

Awards

ERDİÑÇ 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.