

Prof. RAMAZAN BAYINDIR

Personal Information

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Biography

Prof. Dr. Ramazan BAYINDIR, lisans eğitimini Gazi Üniversitesi Teknik Eğitim Fakültesi Elektrik Eğitimi Bölümü'nde Temmuz 1992'de tamamladı. Yüksek lisans ve doktora derecelerini sırasıyla 1998 ve 2002 yıllarında Gazi Üniversitesi Fen Bilimleri Enstitüsü'nden aldı.

Dr. Bayındır, Gazi Üniversitesi Teknik Eğitim Fakültesi Elektrik Eğitimi Bölümü'nde Öğretim Görevlisi ve Yrd. Doç. Dr. olarak görev yaptı. Gazi Üniversitesi Teknoloji Fakültesi Elektrik Elektronik Mühendisliği Bölümünde Doç. Dr. olarak görev yapan Dr. Bayındır, 2013 yılından itibaren Prof. Dr. unvanıyla görevine devam etmektedir. Temel çalışma alanları, yenilenebilir enerji kaynakları, mikro şebekeler, dağıtık üretim, akıllı şebeke uygulamaları ve PLC ile endüstriyel otomasyon uygulamalarıdır.

Dr. Bayındır, yıllık olarak düzenlenen "International Conference on Renewable Energy Research and Applications (ICRERA 2012-2018)", "16th International Power Electronics and Motion Control Conference and Exposition (PEMC 2014)" ve "International Conference on Power Engineering, Energy and Electrical Drives (POWERENG 2013)" isimli konferanslarda program başkanı olarak görev yaptı. Ayrıca, "Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji" isimli derginin baş editörlük görevi ve SCI indekste taranan birçok seçkin dergide konuk editör olarak görev yaptı. 2019 yılından itibaren "IEEE Senior Member" olan Dr. Bayındır'ın, çalışma alanları dahilinde 250'den fazla makale ve bildirisi bulunmaktadır. Ayrıca, 4 ulusal kitap ve 2 uluslararası kitapta yazar olarak yer almıştır. Birçok ulusal proje tamamlamış olan Dr. Bayındır, birçok Avrupa ülkesinin paydaş olduğu projede de görev almıştır.

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Dr), Turkey 1998 - 2002

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (YI) (Tezli), Turkey 1995 - 1998

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, Turkey 1989 - 1992

Research Areas

Energy, Direct Energy Conversion and Energy Storage, Power System Analysis, Generating Stations and Plants, Electric Power Transmission, Distribution and Protection, Renewable energy, High Voltage Technique

Academic Titles / Tasks

ACADEMIC TITLES / TASKS

Professor, Gazi University, Teknoloji Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2013 - Continues
Assistant Professor, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 2007 - 2007
Lecturer, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 2002 - 2007
Research Assistant, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 1996 - 2002

Academic and Administrative Experience

Vice Rector, Gazi University, Rektörlük, 2020 - Continues
Rektörlük Kalite Komisyonu Üyesi, Gazi University, Rektörlük, 2020 - Continues
Head of Department, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2020 - 2020
Head of Department, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2017 - 2019
Head of Department, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2016 - 2017
Fakülte Yönetim Kurulu Üyesi, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2015 - 2016
Director of Vocational School, Gazi University, Gazi Meslek Yüksekokulu, 2011 - 2012

Advising Theses

BAYINDIR R., Design And Analysis Of Metaheuristic Optimization-Based Hybrid Model For Photovoltaic Power Estimation, Doctorate, M.ÇOLAK(Student), 2020
BAYINDIR R., Fpga Based Fuzzy Logic Controller For Multiconverter In Dc Distributed Power Systems, Doctorate, M.Khalaf(Student), 2020
BAYINDIR R., FPGA based fuzzy logic controller for multiconverter in dc distributed power systems, Doctorate, M.KHALAF(Student), 2019
BAYINDIR R., Optimal placement of electric vehicle charging stations on a distribution network, Postgraduate, T.HARIGHI(Student), 2019
BAYINDIR R., Ac Module Design And Implementation For Solar Panels, Postgraduate, C.CAN(Student), 2019
BAYINDIR R., Householder yöntemi ile güç sistemlerinde küçük sinyal kararlılığının incelenmesi, Postgraduate, A.SABATI(Student), 2019
BAYINDIR R., Analysis Of Small Signal Stability With The Householder Method In Power Systems, Postgraduate, A.Sabati(Student), 2019
BAYINDIR R., Güç Sistemlerinde Gerilim Kararlılığının Optimizasyonunda Yeni Bir Akıllı Yöntem Geliştirilmesi Ve Uygulaması, Doctorate, S.ERMİŞ(Student), 2018
BAYINDIR R., Connection Criteria Of Roof Type Solar Energy Power Plants And To Distribution Facilities, Postgraduate, F.ÖNCİN(Student), 2018
BAYINDIR R., Dynamic Power Flow Monitoring And Voltage Stability Analysis On Energy Systems, Postgraduate, Ü.ÇETİNKAYA(Student), 2016
BAYINDIR R., A web-based educational tool for simulation of reactive power compensation with a synchronous motor, Postgraduate, S.VADİ(Student), 2014
BAYINDIR R., System design and application aimed at prevention of illegal electricity usage, Postgraduate, K.DEMİRTAŞ(Student), 2014
BAYINDIR R., Power factor correction with fixed capacitor thyristor controlled reactor, Postgraduate, A.KÖSE(Student), 2014
BAYINDIR R., Theoretical and experimental analysis of a pneumatic engine control system, Doctorate, H.GÜNEŞ(Student), 2012
BAYINDIR R., Asenkron motor büyüklüklerinin Zigbee haberleşme protokolü kullanılarak izlenmesi, Postgraduate, M.ŞEN(Student), 2010
BAYINDIR R., SERAMİK PİŞİRME FIRINININ TASARIMI VE DENETİMİ, Postgraduate, S.BULUT(Student), 2010
BAYINDIR R., ÜÇ FAZLI ASENKRON MOTORUN GÜÇ KATSAYISININ PLC İLE KONTROLÜ VE İZLENMESİ, Postgraduate, L.BARAN(Student), 2010

BAYINDIR R., PARAMETER OBSERVATION OF INDUCTION MOTOR VIA THE ZIGBEE COMMUNICATION PROTOCOL, Postgraduate, M.ŞEN(Student), 2010

BAYINDIR R., Seramik pişirme fırınının tasarımı ve denetimi, Postgraduate, S.BULUT(Student), 2010

BAYINDIR R., Internet based wireless data communication in industrial automation, Postgraduate, Y.ÇETİNCEVİZ(Student), 2010

BAYINDIR R., REACTIVE POWER COMPENSATION WITH ARTIFICIAL NEURAL NETWORKS CONTROLLED SYNCHRONOUS MOTOR, Postgraduate, A.GÖRGÜN(Student), 2009

BAYINDIR R., Yapay sinir ağları denetimli senkron motor ile reaktif güç kompanzasyonu, Postgraduate, A.GÖRGÜN(Student), 2009

BAYINDIR R., Üç fazlı asenkron motorun güç katsayısının PLC ile kontrolü ve izlenmesi, Postgraduate, L.BARAN(Student), 2009

BAYINDIR R., DESIGN OF EDUCATIONAL TOOL FOR REACTIVE POWER COMPENSATOR BASED ON ARTIFICIAL NEURAL NETWORK, Postgraduate, Ö.SESVEREN(Student), 2008

BAYINDIR R., Yapay sinir ağları temelli reaktif güç kompanzasyonu eğitim seti tasarımı, Postgraduate, Ö.SESVEREN(Student), 2008

BAYINDIR R., Alternatörlerin otomatik paralel bağlanması için eğitim amaçlı bir deney setinin geliştirilmesi ve etkililiğinin değerlendirilmesi, Doctorate, İ.GARİP(Student), 2008

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Optimal Power Flow Analysis with Renewable Energy Resource Uncertainty Using Dwarf Mongoose Optimizer: Case of ADRAR Isolated Electrical Network**
Mouassa S., Alateeq A., Alassaf A., BAYINDIR R., Alsaleh I., Jurado F.
IEEE Access, vol.12, pp.10202-10218, 2024 (SCI-Expanded)
- II. **Smart coordination of predictive load balancing for residential electric vehicles based on EMD-Bayesian optimised LSTM**
AKIL M., Dokur E., BAYINDIR R.
IET RENEWABLE POWER GENERATION, vol.16, no.15, pp.3216-3232, 2022 (SCI-Expanded)
- III. **Assessing drivers of residential energy consumption in Turkey: 2000-2018**
Duzgun B., Koksall M. A., BAYINDIR R.
ENERGY FOR SUSTAINABLE DEVELOPMENT, vol.70, pp.371-386, 2022 (SCI-Expanded)
- IV. **Electricity Consumption Behaviors and Clustering of Distribution Grids in Terms of Demand Response**
Cetinkaya U., AVCI E., BAYINDIR R.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.50, no.9-10, pp.498-515, 2022 (SCI-Expanded)
- V. **Induction motor control system with a Programmable Logic Controller (PLC) and Profibus communication for industrial plants — An experimental setup**
VADİ S., BAYINDIR R., Toplar Y., Colak I.
ISA Transactions, vol.122, pp.459-471, 2022 (SCI-Expanded)
- VI. **Modeling and evaluation of SOC-based coordinated EV charging for power management in a distribution system**
AKIL M., DOKUR E., BAYINDIR R.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.30, no.3, pp.678-694, 2022 (SCI-Expanded)
- VII. **Modeling, Analysis and Proportional Resonant and Proportional Integral Based Control Strategy for Single Phase Quasi-Z Source Inverters**
VADİ S., BAYINDIR R.
IEEE ACCESS, vol.10, pp.87217-87226, 2022 (SCI-Expanded)
- VIII. **The soc based dynamic charging coordination of evs in the pv-penetrated distribution network using real-world data**

Akil M., Dokur E., BAYINDIR R.

Energies, vol.14, no.24, 2021 (SCI-Expanded)

- IX. **Comprehensive Non-Intrusive Load Monitoring Process: Device Event Detection, Device Feature Extraction and Device Identification Using KNN, Random Forest and Decision Tree**
GÜRBÜZ F. B., BAYINDIR R., VADİ S.
2021 10th International Conference on Renewable Energy Research and Application (ICRERA), pp.447-452, 2021 (SCI-Expanded)
- X. **Design and Simulation of a Grid Connected Wind Turbine with Permanent Magnet Synchronous Generator**
VADİ S., GÜRBÜZ F. B., BAYINDIR R., HOSSAIN E.
2020 8th International Conference on Smart Grid (icSmartGrid), pp.169-175, 2020 (SCI-Expanded)
- XI. **Multi-objective Optimization of a Hybrid Renewable Energy System with a Gas Micro-turbine and a Storage Battery**
Saib S., Gherbi A., Bayindir R., Kaabeche A.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.45, no.3, pp.1553-1566, 2020 (SCI-Expanded)
- XII. **Daily Photovoltaic Power Prediction Enhanced by Hybrid GWO-MLP, ALO-MLP and WOA-MLP Models Using Meteorological Information**
Colak M., YEŞİLBUDAK M., BAYINDIR R.
ENERGIES, vol.13, no.4, 2020 (SCI-Expanded)
- XIII. **A Review of Control Methods on Suppression of 2 *< italic > & x03C9;</italic > Ripple for Single-Phase Quasi-Z-Source Inverter***
VADİ S., BAYINDIR R., Hossain E.
IEEE ACCESS, vol.8, pp.42055-42070, 2020 (SCI-Expanded)
- XIV. **A Review on Communication Standards and Charging Topologies of V2G and V2H Operation Strategies**
VADİ S., BAYINDIR R., Colak A. M., Hossain E.
ENERGIES, vol.12, no.19, 2019 (SCI-Expanded)
- XV. **A Review on Optimization and Control Methods Used to Provide Transient Stability in Microgrids**
VADİ S., Padmanaban S., BAYINDIR R., Blaabjerg F., Mihet-Popa L.
ENERGIES, vol.12, no.18, 2019 (SCI-Expanded)
- XVI. **Small Signal Stability with the Householder Method in Power Systems**
Sabati A., BAYINDIR R., Padmanaban S., Hossain E., Tur M. R.
ENERGIES, vol.12, no.18, 2019 (SCI-Expanded)
- XVII. **Electric Vehicle Charge Stations Location Analysis and Determination-Ankara (Turkey) Case Study**
Harighi T., Padmanaban S., BAYINDIR R., Hossain E., Holm-Nielsen J. B.
ENERGIES, vol.12, no.18, 2019 (SCI-Expanded)
- XVIII. **The 5th IEEE International Conference on Renewable Energy Research and Applications (ICRERA 2016)**
Colak I., Kurokawa F., Fahmi N., BAYINDIR R.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.25, no.25, pp.24517-24519, 2018 (SCI-Expanded)
- XIX. **An Overview of Energy Scenarios, Storage Systems and the Infrastructure for Vehicle-to-Grid Technology**
Harighi T., BAYINDIR R., Padmanaban S., Mihet-Popa L., Hossain E.
ENERGIES, vol.11, no.8, 2018 (SCI-Expanded)
- XX. **Stability improvement of microgrids in the presence of constant power loads**
Hossain E., Perez R., Nasiri A., BAYINDIR R.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.96, pp.442-456, 2018 (SCI-Expanded)
- XXI. **Techno-Economic Optimization of a Grid-Connected Hybrid Energy System Considering Voltage Fluctuation**
Saib S., Gherbi A., Kaabeche A., BAYINDIR R.

- JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, vol.13, no.2, pp.659-668, 2018 (SCI-Expanded)
- XXII. **Optimization Study of Hybrid Renewable Energy System in Autonomous Site**
Saib S., Gherbi A., BAYINDIR R.
ARTIFICIAL INTELLIGENCE IN RENEWABLE ENERGETIC SYSTEMS: SMART SUSTAINABLE ENERGY SYSTEMS, vol.35, pp.431-438, 2018 (SCI-Expanded)
- XXIII. **Design and real time implementation of adaptive neural-fuzzy inference system controller based unity single phase power factor converter**
Benyamina A., Moulahoum S., Colak I., BAYINDIR R.
ELECTRIC POWER SYSTEMS RESEARCH, vol.152, pp.357-366, 2017 (SCI-Expanded)
- XXIV. **Constant Power Loads (CPL) with Microgrids: Problem Definition, Stability Analysis and Compensation Techniques**
AL-Nussairi M. K., BAYINDIR R., Padmanaban S., Mihet-Popa L., Siano P.
ENERGIES, vol.10, no.10, 2017 (SCI-Expanded)
- XXV. **Stability Analysis of MIMO Microgrid Systems in d-q Axis Platform with Constant Power Loads Based on Popov Absolute Stability Criterion**
Hossain E., Perez R., BAYINDIR R.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.45, no.19, pp.2200-2215, 2017 (SCI-Expanded)
- XXVI. **Smart grid technologies and applications**
BAYINDIR R., Colak I., Fulli G., Demirtas K.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.66, pp.499-516, 2016 (SCI-Expanded)
- XXVII. **Design and experimental analysis of an advanced static VAR compensator with computer aided control**
Irmak E., Bayındır R., Köse A.
ISA TRANSACTIONS, vol.64, pp.384-393, 2016 (SCI-Expanded)
- XXVIII. **Microgrid testbeds around the world: State of art**
Hossain E., KABALCI E., BAYINDIR R., Perez R.
ENERGY CONVERSION AND MANAGEMENT, vol.86, pp.132-153, 2014 (SCI-Expanded)
- XXIX. **Smart grid opportunities and applications in Turkey**
Colak I., BAYINDIR R., Fulli G., Tekin I., Demirtas K., Covrig C.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.33, pp.344-352, 2014 (SCI-Expanded)
- XXX. **Real-Time Monitoring and Control of the Parameters of an Induction Motor**
BAYINDIR R., VADİ S.
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.19, no.10, pp.145-150, 2013 (SCI-Expanded)
- XXXI. **A new approach to predict the excitation current and parameter weightings of synchronous machines based on genetic algorithm-based k-NN estimator**
Kahraman H. T., BAYINDIR R., Sagioglu Ş.
Energy Conversion and Management, vol.64, pp.129-138, 2012 (SCI-Expanded)
- XXXII. **Design and implementation of an Internet based effective controlling and monitoring system with wireless fieldbus communications technologies for process automation-An experimental study**
ÇETİNCEVİZ Y., BAYINDIR R.
ISA TRANSACTIONS, vol.51, no.3, pp.461-470, 2012 (SCI-Expanded)
- XXXIII. **A Remote Laboratory Experiment for 4-Quadrant Control of a DC Motor**
IRMAK E., BAYINDIR R., Colak I., Soysal M.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.19, no.4, pp.747-758, 2011 (SCI-Expanded)
- XXXIV. **A water pumping control system with a programmable logic controller (PLC) and industrial wireless modules for industrial plants-An experimental setup**
BAYINDIR R., ÇETİNCEVİZ Y.
ISA TRANSACTIONS, vol.50, no.2, pp.321-328, 2011 (SCI-Expanded)
- XXXV. **DESIGN AND APPLICATION OF ELECTROMAGNETIC SOLENOID FOR VALVE MECHANISM ON COMPRESSED AIR ENGINES**
Koca A., BAYINDIR R., Gunes H., KUNT M. A., Sakar S.

- JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.26, no.1, pp.73-79, 2011 (SCI-Expanded)
- XXXVI. **Review of multilevel voltage source inverter topologies and control schemes**
Colak I., KABALCI E., BAYINDIR R.
ENERGY CONVERSION AND MANAGEMENT, vol.52, no.2, pp.1114-1128, 2011 (SCI-Expanded)
- XXXVII. **Development of a real time energy monitoring platform**
BAYINDIR R., IRMAK E., Colak I., Bektas A.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.33, no.1, pp.137-146, 2011 (SCI-Expanded)
- XXXVIII. **PROVIDING EQUALITY OF FREQUENCIES AND PHASE ANGLES BASED ON MICROCONTROLLER FOR PARALLEL CONNECTION OF GENERATORS**
SEFA İ., BAYINDIR R., Garip I., Bayhan S., Colak I.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.25, no.1, pp.39-48, 2010 (SCI-Expanded)
- XXXIX. **Design and implementation of a neural controller for power factor correction**
Sagiroglu Ş., BAYINDIR R., Colak I.
Engineering Intelligent Systems, vol.17, no.4, pp.209-220, 2009 (SCI-Expanded)
- XL. **INVESTIGATING INDUSTRIAL RISKS BASED ON INFORMATION SECURITY FOR OBSERVERABLE ELECTRICAL ENERGY DISTRIBUTION SYSTEM AND SUGGESTIONS**
BAYINDIR R., SAĞIROĞLU Ş., Colak I., Ozbilen A.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.24, no.4, pp.715-723, 2009 (SCI-Expanded)
- XLI. **MICROCONTROLLER BASED WARNING SYSTEM FOR RIGHT PHASE ORDER AND PHASE COLLAPSE FOR ALTERNATORS**
BAYINDIR R., Colak I., Garip I., Bayhan S.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.24, no.1, pp.105-117, 2009 (SCI-Expanded)
- XLII. **An intelligent power factor corrector for power system using artificial neural networks**
BAYINDIR R., Sagiroglu Ş., Colak I.
Electric Power Systems Research, vol.79, no.1, pp.152-160, 2009 (SCI-Expanded)
- XLIII. **Fault detection and protection of induction motors using sensors**
BAYINDIR R., SEFA İ., Colak I., Bektas A.
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.23, no.3, pp.734-741, 2008 (SCI-Expanded)
- XLIV. **DESIGN AND IMPLEMENTATION OF AN INTELLIGENT SIMULATOR FOR REACTIVE POWER COMPENSATION**
BAYINDIR R., DEMİRBAŞ Ş., Sesveren O.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.23, no.3, pp.681-688, 2008 (SCI-Expanded)
- XLV. **Microcontroller based digitally controlled ultrasonic motor drive system**
Bal G., BEKİROĞLU E., BAYINDIR R., Uzel H.
JOURNAL OF ELECTROCEAMICS, vol.20, pp.265-270, 2008 (SCI-Expanded)
- XLVI. **Low-cost and high sensitively microcontroller based control unit for a friction welding machine**
BAYINDIR R., ATEŞ H.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.189, pp.126-131, 2007 (SCI-Expanded)
- XLVII. **Novel approach based on microcontroller to online protection of induction motors**
BAYINDIR R., Sefa İ.
ENERGY CONVERSION AND MANAGEMENT, vol.48, no.3, pp.850-856, 2007 (SCI-Expanded)
- XLVIII. **Design and construction of an electrical furnace to fire ceramic product**
BAYINDIR R.
JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH, vol.66, no.2, pp.135-140, 2007 (SCI-Expanded)
- XLIX. **A novel control unit for a friction welding machine based on computer**

- BAYINDIR R., ATEŞ H.
MATERIALS AND MANUFACTURING PROCESSES, vol.22, no.1, pp.102-106, 2007 (SCI-Expanded)
- L. **Power factor correction technique based on artificial neural networks**
Sagiroglu Ş., Colak I., BAYINDIR R.
Energy Conversion and Management, vol.47, pp.3204-3215, 2006 (SCI-Expanded)
- LI. **A novel dynamic reactive power compensator based on PIC**
Colak I., BAYINDIR R.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.33, no.8, pp.861-876, 2005 (SCI-Expanded)
- LII. **Comparison of the constructed control methods for a friction-welding machine**
BAYINDIR R., ATEŞ H.
MATERIALS AND MANUFACTURING PROCESSES, vol.20, no.2, pp.131-146, 2005 (SCI-Expanded)
- LIII. **Experimental study on reactive power compensation using a fuzzy logic controlled synchronous motor**
Colak I., BAYINDIR R., Sefa İ.
ENERGY CONVERSION AND MANAGEMENT, vol.45, pp.2371-2391, 2004 (SCI-Expanded)
- LIV. **Reactive power compensation using a fuzzy logic controlled synchronous motor**
Colak I., BAYINDIR R., Bay Ö. F.
ENERGY CONVERSION AND MANAGEMENT, vol.44, no.13, pp.2189-2204, 2003 (SCI-Expanded)

Articles Published in Other Journals

- I. **Overview: Using Hybrid Energy System for Electricity Production Based on the Optimization Methods**
SAİB S., BAYINDIR R., VADİ S.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.1, no.1, pp.1-10, 2024 (ESCI)
- II. **Bir İnceleme: Farklı Teknolojilerin Kullanımı ile Elektrik Enerjisi Depolama Sistemi Bağlantılı Hibrit Güç Sistemleri**
SAİB S., BAYINDIR R., VADİ S.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, 2023 (ESCI)
- III. **Voltage Stability Study In Power Systems With Improved Teaching-Learning Based Optimization Algorithm**
ERMİŞ S., Bayindir R., Yesilbudak M.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.11, no.3, pp.695-705, 2023 (Peer-Reviewed Journal)
- IV. **Non-intrusive Load Monitoring, Classification and Control in Electrical Home Appliances**
GÜRBÜZ F. B., BAYINDIR R., VADİ S.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.11, no.4, pp.1209-1222, 2023 (Peer-Reviewed Journal)
- V. **Optimal Operation of Combined Heat and Power in Competitive Electricity Markets: a Case Study in IAUN**
Mirhedayati A., Hadadi Z., Zanjani S., Shahinzadeh H., BAYINDIR R., Shaneh M., Moradi J.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.11, no.3, pp.1013-1022, 2021 (ESCI)
- VI. **Application of Fractional Order Cascaded Controller for AGC Study in Power System Integrated With Renewable Sources**
Jena N. K., Patel N. C., Sahoo S., Sahu B. K., dash s., BAYINDIR R.
INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH, 2020 (ESCI)
- VII. **Doğru Akım Motoru Kapalı Çevrim Hız Denetim Sistemindeki Pİ Parametrelerinin Genetik ve Parçacık Sürü Algoritması Kullanarak Optimizasyonu**
VADİ S., BAYINDIR R.
Veri Bilimi, vol.2, no.2, pp.51-60, 2019 (Peer-Reviewed Journal)
- VIII. **Project Surveys for Determining and Defining Key Performance Indicators in the Development of**

Smart Grids in Energy Systems

TÜR M. R., BAYINDIR R.

INTERNATIONAL JOURNAL of SMART GRID, vol.2, no.3, pp.103-107, 2019 (Peer-Reviewed Journal)

- IX. **Application of Invasive Weed Optimization Algorithm to Optimally Design Multi-Staged PID Controller for LFC Analysis**
Patel N. C., Debnath M. K., Sahu B. K., Dash S. S., BAYINDIR R.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.9, no.1, pp.470-479, 2019 (ESCI)
- X. **Design and Implementation of a Cuk Converter Controlled by a Direct Duty Cycle INC-MPPT in PV Battery System**
BELKAID A., ÇOLAK İ., KAYIŞLI K., BAYINDIR R.
International Journal of Smart Grid, vol.3, no.1, pp.18-24, 2019 (Peer-Reviewed Journal)
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- LVIII. **A Comprehensive Study on Microgrid Technology**
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- LXXXVII. **Hybrid Cascaded Nine Level Inverter using Dspace controller for Standalone Photovoltaic Applications**
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- LXXXIX. **Implementation of Unit Commitment Algorithm A Comprehensive Droop Control Technique to Retain Microgrid Stability**
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- XCI. **Analysis and Experimental Investigation for Grid Connected 10 kW Solar PV System in Distribution**

Networks

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- XCII. **Stability Analysis of an Offshore Wind Farm Connected to Turkish Electricity Transmission System**
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- XCIII. **Implementation of Hybrid Energy Storage Systems to Compensate Microgrid Instability in the Presence of Constant Power Loads**
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- XCIV. **Standarts Based Investigation of Voltage Dips and Voltage Imbalances in an Organized Industrial Zone**
BAYINDIR R., YEŞİLBUDAK M., ERMİŞ S.
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- XCV. **Smart Grid Technologies and Applications** Smart grid technologies can be defined as self sufficient systems that can find solutions to problems quickly inan available system that reduces the workforce and targets sustainable reliable safe and quality electricity to allconsumers In this respect different technological applications can be seen from the perspective of researchersand investors The objective of this presentation is expected to be an important guiding source for researchersand engineers studying the smart grid It also helps transmission and distribution system operators to follow theright path as they are transforming their classical grids to smart grids
BAYINDIR R.
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- XCVI. **Joint Project Development**
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- XCVII. **A Comprehensive Study on Microgrid Modelling Control and Stability**
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- XCVIII. **Stability Analysis of an Offshore Wind Farm Connected to Turkish Electricity Transmission System**
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- XCIX. **The Path of the Smart Grid - The New and Improved Power Grid**
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3rd International Smart Grid Workshop and Certificate Program (ISGWCP), İstanbul, Turkey, 21 - 25 March 2016, pp.62-69
- C. **A Common-Mode Leakage Current Mitigation forPV-Grid. Connected Three-Phase Three-Level Transformerless T-type-NPC-MLI**
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- CI. **Effects of Renewable Energy Sources on the Power System**
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- CIV. **A Review of Data Mining and Solar Power Prediction**
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- CV. **Implementation of Unit Commitment Algorithm: A Comprehensive Droop Control Technique to Retain Microgrid Stability**
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- CVI. **Applying the Meta-Heuristic Prediction Algorithm for Modeling Power Density in Wind Power Plant**
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- CVIII. **k-Means Partition of Monthly Average Insolation Period Data for Turkey**
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