

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, SCI indekste taranan birçok seçkin dergide konuk editör olarak görev yaptı. Şu anda, "Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji" isimli derginin editörlüğünü yürütmektedir. 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

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

Under Graduate, 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

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

Professional 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., Fotovoltaik güç tahmini için metasezgisel optimizasyon tabanlı hibrit model tasarımı ve analizi, Doctorate, M.ÇOLAK(Student), 2020

BAYINDIR R., Optimal placement of electric vehicle charging stations on a distribution network, Post Graduate, T.HARIGHI(Student), 2019

BAYINDIR R., Güneş panelleri için aa modül tasarımı ve uygulaması, Post Graduate, C.CAN(Student), 2019

BAYINDIR R., Analysis Of Small Signal Stability With The Householder Method In Power Systems, A.Sabati(Student), 2019

BAYINDIR R., Householder yöntemi ile güç sistemlerinde küçük sinyal kararlılığının incelenmesi, Post Graduate, A.SABATI(Student), 2019

BAYINDIR R., FPGA based fuzzy logic controller for multiconverter in dc distributed power systems, Doctorate, M.KHALAF(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, Post Graduate, F.ÖNCİN(Student), 2018

BAYINDIR R., Dynamic Power Flow Monitoring And Voltage Stability Analysis On Energy Systems, Post Graduate, Ü.ÇETİNKAYA(Student), 2016

BAYINDIR R., System design and application aimed at prevention of illegal electricity usage, Post Graduate, K.DEMİRTAŞ(Student), 2014

BAYINDIR R., Power factor correction with fixed capacitor thyristor controlled reactor, Post Graduate, A.KÖSE(Student), 2014

BAYINDIR R., A web-based educational tool for simulation of reactive power compensation with a synchronous motor, Post Graduate, S.VADİ(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, Post Graduate, M.ŞEN(Student), 2010

BAYINDIR R., ÜÇ FAZLI ASENKRON MOTORUN GÜÇ KATSAYISININ PLC İLE KONTROLÜ VE İZLENMESİ, L.BARAN(Student), 2010

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

BAYINDIR R., SERAMİK PIŞİRME FIRINININ TASARIMI VE DENETİMİ, S.BULUT(Student), 2010

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

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

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

BAYINDIR R., Yapay sinir ağları denetimli senkron motor ile reaktif güç kompanzasyonu, Post Graduate,

A.GÖRGÜN(Student), 2009

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

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

BAYINDIR R., Yapay sinir ağları temelli reaktif güç kompanzasyonu eğitim seti tasarımı, Post Graduate, 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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Feasibility study of grid-connected solar plant: An in-depth analysis of system modeling and proper technology selection**
Stephens G., Dieterle C., Hossain E., BAYINDIR R.
INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING EDUCATION, 2020 (Journal Indexed in SCI)
- II. **Feasibility analysis: Evaluating sites for possible renewable energy options and their implications to minimize the cost**
Hossain E., Shi F., BAYINDIR R., Hossain J.
INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING EDUCATION, 2020 (Journal Indexed in SCI)
- III. **Analysis of pumped hydroelectric energy storage for large-scale wind energy integration**
Carew N., Warnock W., BAYINDIR R., Hossain E., Rakin A. S.
INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING EDUCATION, 2020 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)

- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **Smart grid technologies and applications**
BAYINDIR R., Colak I., Fulli G., Demirtas K.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.66, pp.499-516, 2016 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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., Sagirolu Ş.
Energy Conversion and Management, vol.64, pp.129-138, 2012 (Journal Indexed in SCI Expanded)

- XXV. **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 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **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 (Journal Indexed in SCI)
- XXIX. **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 (Journal Indexed in SCI)
- XXX. **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 (Journal Indexed in SCI)
- XXXI. **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 (Journal Indexed in SCI)
- XXXII. **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 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI Expanded)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **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 (Journal Indexed in SCI Expanded)
- XXXVI. **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 (Journal Indexed in SCI)
- XXXVII. **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 (Journal Indexed in SCI)
- XXXVIII. **Microcontroller based digitally controlled ultrasonic motor drive system**
Bal G., BEKİROĞLU E., BAYINDIR R., Uzel H.
JOURNAL OF ELECTRO CERAMICS, vol.20, pp.265-270, 2008 (Journal Indexed in SCI)
- XXXIX. **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 (Journal Indexed in SCI)
- XL. **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 (Journal Indexed in SCI)
- XLI. **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 (Journal Indexed in SCI)
- XLII. **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 (Journal Indexed in SCI)
- XLIII. **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 (Journal Indexed in SCI Expanded)
- XLIV. **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 (Journal Indexed in SCI)
- XLV. **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 (Journal Indexed in SCI)
- XLVI. **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 (Journal Indexed in SCI)
- XLVII. **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 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **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 (Refereed Journals of Other Institutions)
- II. **Doğru Akım Motoru Kapalı Çevrim Hız Denetim Sistemindeki PI Parametrelerinin Genetik ve Parçacık Sürü Algoritması Kullanarak Optimizasyonu**
VADİ S., BAYINDIR R.
Veri Bilimi, vol.2, no.2, pp.51-60, 2019 (Other Refereed National Journals)
- III. **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 (Refereed Journals of Other Institutions)
- IV. **Application of Invasive Weed Optimization Algorithm to Optimally Design Multi-Stage 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 (Journal Indexed in ESCI)

- V. **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.19-25, 2019 (Refereed Journals of Other Institutions)
- VI. **Modeling of a permanent magnet synchronous generator in a wind power generation system with an electrochemical energy storage**
BELKAID A., ÇOLAK İ., KAYIŞLI K., BAYINDIR R.
International Journal of Smart Grid, vol.2, no.4, pp.197-202, 2018 (Refereed Journals of Other Institutions)
- VII. **Ankara ilinin uzun dönem global güneş ışınım şiddeti, güneşlenme süresi ve hava sıcaklığı verilerinin analizi ve eğri uydurma metotlarıyla modellenmesi**
YEŞİLBUDAK M., ÇOLAK M., BAYINDIR R.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.6, no.1, pp.189-203, 2018 (Other Refereed National Journals)
- VIII. **What are the Current Status and Future Prospects in Solar Irradiance and Solar Power Forecasting?**
YEŞİLBUDAK M., ÇOLAK M., BAYINDIR R.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.8, no.1, pp.635-648, 2018 (Journal Indexed in ESCI)
- IX. **Farklı Baralara Sahip Güç Sistemlerinde Yük Akışı Analiz Metotlarının Karşılaştırılması**
YEŞİLBUDAK M., ERMİŞ S., BAYINDIR R.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.5, no.3, pp.237-246, 2017 (Other Refereed National Journals)
- X. **Farklı bara sayısına sahip güç sistemlerinde yük akışı analiz metotlarının karşılaştırılması**
YEŞİLBUDAK M., ERMİŞ S., BAYINDIR R.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.5, no.3, pp.237-246, 2017 (Other Refereed National Journals)
- XI. **Development of Lyapunov redesign controller for microgrids with constant power loads**
Hossain E., Perez R., Nasiri A., BAYINDIR R.
Renewable Energy Focus, vol.1920, pp.49-62, 2017 (Refereed Journals of Other Institutions)
- XII. **A Web-Based Educational Tool For Simulation of Reactive Power Compensation With Synchronous Motor**
BAYINDIR R., VADİ S.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.20, no.1, pp.61-69, 2017 (Journal Indexed in ESCI)
- XIII. **Implementation of Hybrid Energy Storage Systems to Compensate Microgrid Instability in the Presence of Constant Power Loads**
Hossain E., Perez R., BAYINDIR R.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.7, no.2, pp.738-750, 2017 (Journal Indexed in ESCI)
- XIV. **A Novel keyless and key based Encryption Algorithm to handle Cyber Security in Microgrid Application**
Hossain J., Shikander S. S. , Hossain E., BAYINDIR R.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.30, no.4, pp.330-343, 2017 (Journal Indexed in ESCI)
- XV. **Modelling and Simulation of Natural Gas Generator and EV Charging Station: A Step to Microgrid Technology**
Sakib N., Hossain J., Hossain E., BAYINDIR R.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.7, no.1, pp.399-410, 2017 (Journal Indexed in ESCI)
- XVI. **Modelling and Simulation of Permanent Magnet Synchronous Generator Wind Turbine: A Step to Microgrid Technology**
Hossain E., Hossain J., Sakib N., BAYINDIR R.

- INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.7, no.1, pp.443-450, 2017 (Journal Indexed in ESCI)
- XVII. **Modelling and Simulation of Solar Plant and Storage System: A Step to Microgrid Technology**
Hossain J., Sakib N., Hossain E., BAYINDIR R.
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- XVIII. **A comprehensive study on microgrid technology**
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- LXV. **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
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