

Prof. ERDAL IRMAK

Personal Information

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Dr), Turkey 2001 - 2007

Post Graduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (YI) (Tezli), Turkey 1997 - 2001

Under Graduate, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, Turkey 1993 - 1997

Dissertations

Doctorate, Uzaktan eğitim amaçlı internet tabanlı laboratuvar uygulaması, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Dr), 2007

Post Graduate, Bilgisayar kontrollü bina güvenlik sisteminin tasarımı ve uygulanması, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (YI) (Tezli), 2001

Research Areas

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

Academic Titles / Tasks

Professor, Gazi University, Teknoloji Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2019 - Continues

Associate Professor, Gazi University, Teknoloji Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2013 - 2019

Assistant Professor, Gazi University, Teknoloji Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2012 - 2013

Assistant Professor, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 2009 - 2012

Lecturer PhD, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 2007 - 2009

Research Assistant, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 1998 - 2007

Professional Experience

Director of Vocational School, Gazi University, Teknik Bilimler Meslek Yüksekokulu, 2020 - Continues

Assistant Director of the Institute, Gazi University, Fen Bilimleri Enstitüsü, 2018 - 2019

Assistant Director of the Institute, Gazi University, Bilişim Enstitüsü, 2016 - 2016

Assistant Director of Vocational School, Gazi University, Gazi Meslek Yüksekokulu, 2011 - 2012

Deputy Head of Department, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 2009 - 2011

Courses

Dönem Projesi (Hoca Ahmet Yesevi Üniversitesi), Post Graduate, 2017 - 2018
Güç Sistemlerinin Modellenmesi ve Simülasyonu (Gazi Üniversitesi), Post Graduate, 2017 - 2018
Enerji Dağıtımı (TOBB ETÜ), Under Graduate, 2017 - 2018
Güç Sistemleri (Gazi Üniversitesi), Under Graduate, 2017 - 2018
Enerji Dağıtımı (Gazi Üniversitesi), Under Graduate, 2017 - 2018
Kritik Altyapılar ve Güvenliği (Hoca Ahmet Yesevi Üniversitesi), Post Graduate, 2017 - 2018

Advising Theses

IRMAK E., Şebeke Etkileşimli Mikroşebekelerde Güç paylaşımının Yapay Zeka Yöntemiyle Optimizasyonu, Post Graduate, İ.FATİMANUR(Student), 2020
IRMAK E., Dağıtık üretim kaynakları için model öngörülü kontrol yöntemi ile yeni bir DA/DA çevirici tasarımı ve uygulaması, Doctorate, N.GÜLER(Student), 2019
IRMAK E., Design And Implementation Of A Novel Dc/Dc Converter Using Model Predictive Control Method For Distributed Generation Sources, N.Güler(Student), 2019
IRMAK E., Integration Of A Vsc-Based HvdC Line To Turkish Electricity Transmission Network And System Stability Analysis, M.Yeşil(Student), 2018
IRMAK E., A Novel Approach For Cyber Security Of Modbus Based Scada Systems, Post Graduate, İ.ERKEK(Student), 2018
IRMAK E., Türkiye elektrik iletim şebekesine VSC tabanlı bir HVDC hattın entegrasyonu ve sistemin kararlılık analizleri, Post Graduate, M.YEŞİL(Student), 2018
IRMAK E., Design And Implementation Of Static Excitation System For Synchronous Generator Used In Hydroelectric Power Plants, M.Ersan(Student), 2017
IRMAK E., Hidroelektrik santrallerde kullanılan senkron generatörler için statik uyarım sistemi tasarımı ve uygulaması, Post Graduate, M.ERSAN(Student), 2017
IRMAK E., Investigation of wireless sensor networks from cyber security perspective and proposing a novel intrusion detection system, Post Graduate, M.MELİH(Student), 2017
IRMAK E., Design of an E-laboratory allowing simultaneous access to electrical machines experimental sets, Post Graduate, A.CALPBİNİCİ(Student), 2014
IRMAK E., Parallel connection of synchronous generators using dsPIC and achieving the load-sharing control over an interface, Post Graduate, N.GÜLER(Student), 2012

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

- I. **A model predictive control-based hybrid MPPT method for boost converters**
Irmak E., Güler N.
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.107, no.1, pp.1-16, 2020 (Journal Indexed in SCI)
- II. **Design, implementation and model predictive based control of a mode-changeable DC/DC converter for hybrid renewable energy systems**
Güler N., Irmak E.
ISA Transactions, 2020 (Journal Indexed in SCI Expanded)
- III. **An inverter design for a new permanent magnet synchronous generator**
GÜLER N., IRMAK E., Gor H., KURT E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.28, pp.17723-17732, 2017 (Journal Indexed in SCI)
- IV. **Design, implementation, and verification of computer interactive parallel connection system with load-sharing control for synchronous generators**
GÜLER N., IRMAK E.
ELECTRICAL ENGINEERING, vol.99, no.1, pp.241-263, 2017 (Journal Indexed in SCI)
- V. **A novel design for e-laboratories: Simultaneously accessible experimental application platform**

IRMAK E., CALPBİNİCİ A.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, no.2, pp.363-375, 2017 (Journal Indexed in SCI)

- VI. **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)
- VII. **Design and Analyse of a Parallel Connection Model for Hybrid Energy Systems**
GÜLER N., DEMİRBAŞ Ş., IRMAK E.
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.21, no.2, pp.44-49, 2015 (Journal Indexed in SCI)
- VIII. **Design and Implementation of a Remote Laboratory Platform Using MATLAB Builder for NE**
Colak I., IRMAK E., KABALCI E., Issi F.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.22, no.4, pp.617-629, 2014 (Journal Indexed in SCI)
- IX. **Application of a high efficient voltage regulation system with MPPT algorithm**
IRMAK E., GÜLER N.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.44, no.1, pp.703-712, 2013 (Journal Indexed in SCI)
- X. **A Real Time Application for Analysing Impacts of Frequency Variation on Induction Motor Parameters**
IRMAK E.
PRZEGLAD ELEKTROTECHNICZNY, vol.88, pp.290-293, 2012 (Journal Indexed in SCI)
- XI. **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)
- XII. **COMPUTER BASED IMPLEMENTATION OF SPEED CONTROL EXPERIMENT DEPENDING ON FREQUENCY VARIATION FOR INDUCTION MOTORS**
IRMAK E., VADİ S.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.26, no.1, pp.57-62, 2011 (Journal Indexed in SCI)
- XIII. **A Novel Web-Based Laboratory for DC Motor Experiments**
Colak I., DEMİRBAŞ Ş., SAĞIROĞLU Ş., IRMAK E.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.19, no.1, pp.125-135, 2011 (Journal Indexed in SCI)
- XIV. **Design of an AC-DC-AC converter for wind turbines**
KABALCI E., IRMAK E., Colak I.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.35, no.2, pp.169-175, 2011 (Journal Indexed in SCI)
- XV. **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)
- XVI. **DESIGN OF A REMOTELY ACCESSIBLE E-LABORATORY PLATFORM**
IRMAK E.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.24, no.2, pp.311-322, 2009 (Journal Indexed in SCI)
- XVII. **TORQUE AND SPEED CONTROL OF WOUND ROTOR INDUCTION MOTOR BY ADJUSTING THE ROTOR RESISTANCE WITH A MICROCONTROLLER**
DEMİRBAŞ Ş., IRMAK E., Bayhan S., Colak I.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.23, no.4, pp.801-809, 2008 (Journal Indexed in SCI)
- XVIII. **Remote controlling and monitoring of HVAC system over Internet**
Colak I., DEMİRBAŞ Ş., SEFA İ., IRMAK E., Kahraman H. T.
JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH, vol.67, no.9, pp.680-684, 2008 (Journal Indexed in SCI)

- XIX. **MICROCONTROLLER BASED DC/DC BOOST CONVERTER FOR SOLAR ENERGY SYSTEMS**
DEMİRTAŞ M., SEFA İ., IRMAK E., Colak I.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.23, no.3, pp.719-728,
2008 (Journal Indexed in SCI)
- XX. **USAGE OF MATLAB WEB SERVER FOR E-LEARNING PLATFORMS**
IRMAK E.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.23, no.2, pp.495-506,
2008 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Computer Forensics and Examination of Digital Evidence on Windows Operating System**
Önel B., Irmak E.
Politeknik Dergisi, vol.2021, pp.1-12, 2021 (National Refreed University Journal)
- II. **Early Period Impacts of the Covid-19 Pandemic on Turkish Electricity Profile**
Firik B., Irmak E.
Gazi Üniversitesi Fen Bilimleri Dergisi Part: C Tasarım ve Teknoloji, vol.9, no.1, pp.40-56, 2021 (National Refreed University Journal)
- III. **Separation of Incoming E-Mails Through Artificial Intelligence Techniques**
Yağanoğlu M., Irmak E.
European Journal of Science and Technology, no.21, pp.690-696, 2021 (Refereed Journals of Other Institutions)
- IV. **LINUX TABANLI SUNUCULARDA VE KABLOSUZ AĞLARDA SİBER SALDIRILARIN TESPİTİ VE ÖNLENMESİ**
IRMAK E., zengin S., BÜLBÜL H. İ.
Uluslararası Bilgi Güvenliği Mühendisliği Dergisi, vol.6, no.2, pp.89-107, 2020 (Refereed Journals of Other Institutions)
- V. **Kritik Altyapı Operatörleri İçin Görüntü İşleme Tabanlı Bir Yorgunluk tespit ve Uyarı Sistemi.**
YEŞİL O., IRMAK E., BÜLBÜL H. İ.
Uluslararası Bilgi Güvenliği Mühendisliği Dergisi, vol.6, no.1, pp.35-44, 2020 (Refereed Journals of Other Institutions)
- VI. **Nötr Kenetlemeli Eviriciler için Çok Giriş – Çok Çıkışlı DA-DA Çevirici Tasarımı ve Kontrolü**
Güler N., Irmak E.
G.Ü. Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.7, no.1, pp.49-62, 2019 (Other Refereed National Journals)
- VII. **Endüstriyel Kontrol Sistemleri ve SCADA Uygulamalarının Siber Güvenliği: Modbus TCP Protokolü Örneği**
IRMAK E., ERKEK İ.
G.Ü. Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.6, no.1, pp.1-16, 2018 (Other Refereed National Journals)
- VIII. **Experimental Analysis of The Internal Attacks on Scada Systems**
IRMAK E., Erkek I., Ozcelik M. M.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.30, no.4, pp.216-230, 2017 (Journal Indexed in ESCI)
- IX. **Mikrodenetleyici Temelli Sistemlerde Dspic Kullanımı ve Örnek Uygulama Geliştirme Süreci**
GÜLER N., IRMAK E.
Gazi Üniversitesi Fen Bilimleri Dergisi Part: C Tasarım ve Teknoloji, vol.4, no.2, pp.71-82, 2016 (Refereed Journals of Other Institutions)
- X. **Design of an Energy Monitoring System for a Medium Scale Plant**
IRMAK E., CALPBİNİCİ A., GÜLER N.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.18, no.2, pp.123-131, 2012 (Other Refereed National Journals)

- XI. **DA Motorunun Dört Bölge Denetiminin Eğitim Amaçlı Gerçekleştirilmesi**
ÇOLAK İ., SOYSAL M., IRMAK E., BAYINDIR R.
Politeknik, vol.10, no.3, pp.219-227, 2007 (Other Refereed National Journals)
- XII. **Asenkron Motorlar İçin Denetleyici Tabanlı Koruma ve Yol Verme Rölesi Tasarımı ve Uygulaması**
BAYINDIR R., DEMİRBAŞ Ş., IRMAK E., BEKİROĞLU E.
Politeknik Dergisi, vol.10, no.1, pp.1-5, 2007 (Other Refereed National Journals)
- XIII. **Asenkron Motor Benzetimi İçin Web Tabanlı Bir Eğitim Aracı**
DEMİRBAŞ Ş., IRMAK E., ÇOLAK İ.
Politeknik Dergisi, vol.9, no.4, pp.147-152, 2007 (Other Refereed National Journals)
- XIV. **Doğru Akım Motorunun Temel Giriş Sinyallerine Tepkisinin İnternet Üzerinden Benzetimi**
IRMAK E.
Politeknik Dergisi, vol.9, no.2, pp.71-77, 2006 (Other Refereed National Journals)
- XV. **Bilgisayar Kontrollü Bina Güvenlik Sisteminin Tasarımı ve Uygulaması**
ÇOLAK İ., IRMAK E.
G.Ü. Fen Bilimleri Dergisi, vol.16, no.2, pp.411-421, 2003 (Other Refereed National Journals)
- XVI. **Merdiven Aydınlatmasının Pasif Kızılötesi Yaklaşım Sensörü ile Kontrolü**
YILMAZ C., GÜRDAL O., IRMAK E.
Politeknik Dergisi, vol.3, no.1, pp.45-50, 2000 (Other Refereed National Journals)

Books & Book Chapters

- I. **Endüstriyel Kontrol Sistemlerinin Siber Güvenliği**
ERKEK İ., IRMAK E.
in: SİBER GÜVENLİK VE SAVUNMA: Biyometrik ve Kriptografik Uygulamalar, Sağiroğlu Şeref, Akleyek Sedat, Editor, Nobel Yayınevi, pp.413-452, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **Distributed Hierarchical Control for Proportional Current Sharing in PV Systems**
Calpbinici A., IRMAK E., Kabalci E.
2nd IEEE Global Power, Energy and Communication Conference, GPECOM 2020, Virtual, Izmir, Turkey, 20 - 23 October 2020, pp.108-113
- II. **Optimization of PID Parameters Using Ant Colony Algorithm for Position Control of DC Motor**
ŞİMŞEK E. C. , KÖSE A., ŞAHİN M., IRMAK E.
8th International Conference on Renewable Energy Research and Applications, Brasov, Romania, 3 - 06 November 2019
- III. **MPPT Based Model Predictive Control of Grid Connected Inverter for PV Systems**
GÜLER N., IRMAK E.
8th International Conference on Renewable Energy Research and Applications, 3 - 06 November 2019
- IV. **A Modified Droop Control Method for PV Systems in Island Mode DC Microgrid**
IRMAK E., GÜLER N., KABALCI E., CALPBİNİCİ A.
8th International Conference on Renewable Energy Research and Applications, 3 - 06 November 2019
- V. **Software and Hardware Implementation of a Graphical User Interface for Solar Power Plants**
IRMAK E., ERSAN M., GÜNEY O.
IEEE Global Power, Energy and Communication Conference, 12 - 15 June 2019
- VI. **Effects of Change in Wind Energy Generation on the Power Grid Angle**
YEŞİL M., KÖSE A., IRMAK E.
IEEE Global Power, Energy and Communication Conference, Nevşehir, Turkey, 12 - 15 June 2019
- VII. **A NEW APPROACH FOR ELECTRICITY ENERGY GENERATION FROM WASTE HEAT ENERGY: BATTERY**

CHARGER WITH THERMOELECTRIC GENERATOR

IRMAK E., KÖSE A., TEKINCAN E. B.

6th European Conference on Renewable Energy Systems (ECRES 2018), İstanbul, Turkey, 25 - 27 June 2018

- VIII. **Design and Technical Analysis of a Two-Terminal Voltage Source Converter based HVDC System**
IRMAK E., Yeşil M.
6th European Conference on Renewable Energy Systems (ECRES'xx2018), 25 - 27 June 2018
- IX. **Design of A Load Sharing Method for Unbalanced Power Systems**
IRMAK E., TEKE H.
7th International Conference on Advanced Technologies~ICAT'xx18, 28 April - 01 May 2018
- X. **An Overview of Cyber-Attack Vectors on SCADA Systems**
IRMAK E., Erkek I.
6th International Symposium on Digital Forensic and Security (ISDFS), Antalya, Turkey, 22 - 25 March 2018, pp.350-354
- XI. **Model Predictive Control of Grid-Tied Three Level Neutral Point Clamped Inverter Integrated with A Double Layer Multi-Input Single Output DC/DC Converter**
IRMAK E., GÜLER N.
12th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Doha, Qatar, 10 - 12 April 2018
- XII. **Application of A Boost Based Multi-Input Single-Output DC/DC Converter**
IRMAK E., GÜLER N.
th International Conference on Renewable Energy Research and Applications~ICRERA'xx2017, 5 - 08 November 2017
- XIII. **Güneş Enerji Santralleri için Bir Dizi Evirici ve Enerji İzleme Sistemi Tasarımı**
IRMAK E., GÜLER N., ERSAN M.
9. Otomatik Kontrol Ulusal Toplantısı~TOK'2017, Turkey, 21 - 23 September 2017
- XIV. **A Smart Home Application Based on Wireless Sensor Networks**
IRMAK E., GÖÇMEN G., KÖSE A.
V. European Conference on Renewable Energy Systems (ECRES'xx2017), 27 - 30 August 2017
- XV. **Bilişim Teknolojileri ve Etik**
IRMAK E.
Teknoloji ve Etik Çalıştayı, Turkey, 31 March 2017
- XVI. **A Hybrid Trust Based Intrusion Detection System for Wireless Sensor Networks**
Ozcelik M. M. , IRMAK E., Ozdemir S.
International Symposium on Networks, Computers and Communications (ISNCC), Marrakech, Morocco, 16 - 18 May 2017
- XVII. **PI Controlled Solar Energy Supported Static Excitation System for Synchronous Generators**
IRMAK E., GÜLER N., ERSAN M.
5th International Conference on Renewable Energy Research and Applications, 20 - 23 November 2016
- XVIII. **Adding New Parameters to Attacker Profile by Using Multi Attribute Utility Theory and Probability Analysis of the Success of Cyber Attack**
IRMAK E., ERKEK İ.
9th International Conference on Information Security and Cryptology, 25 - 26 October 2016
- XIX. **Design and Simulation of a New Inverter for an Axial Flux Permanent Magnet Generator**
GÜLER N., IRMAK E., GÖR H., KURT E.
4th European Conference on Renewable Energy Systems, 28 - 31 August 2016
- XX. **Cyber security in Critical Infrastructure**
IRMAK E.
International Cyber Security Workshop and Certificate Program, 23 - 27 May 2016
- XXI. **PI CONTROLLED SOLAR ENERGY SUPPORTED STATIC EXCITATION SYSTEM DESING AND SIMULATION FOR SYNCHRONOUS GENERATORS**
IRMAK E., GÜLER N., Ersan M.

- 5th IEEE International Conference on Renewable Energy Research and Applications (ICRERA), Birmingham, England, 20 - 23 November 2016, pp.1024-1028
- XXII. **Effects of Renewable Energy Sources on the Power System**
BAYINDIR R., DEMİRBAŞ Ş., IRMAK E., Cetinkaya U., Ova A., Yesil M.
17th IEEE International Power Electronics and Motion Control Conference (PEMC), Varna, Bulgaria, 25 - 30 September 2016, pp.388-393
- XXIII. **DESIGN AND APPLICATION OF A NOVEL SINGLE INPUT - MULTI OUTPUT DC/DC CONVERTER**
GÜLER N., IRMAK E.
5th IEEE International Conference on Renewable Energy Research and Applications (ICRERA), Birmingham, England, 20 - 23 November 2016, pp.1039-1045
- XXIV. **Modeling and Simulation of a Static VAR Compensator based on FC-TCR**
KÖSE A., IRMAK E.
5th IEEE International Conference on Renewable Energy Research and Applications (ICRERA), Birmingham, England, 20 - 23 November 2016, pp.924-927
- XXV. **Simulation and ZigBee Based Wireless Monitoring of the Amount of Consumed Energy at Smart Homes**
IRMAK E., KÖSE A., Gocmen G.
5th IEEE International Conference on Renewable Energy Research and Applications (ICRERA), Birmingham, England, 20 - 23 November 2016, pp.1019-1023
- XXVI. **Concept of 4th Dimension for Databases**
IRMAK E., KURTULDU Ö.
14th International Conference on Machine Learning and Applications, Miami, United States Of America, 9 - 11 December 2015
- XXVII. **Design of a Computer Controlled Speed Control System for Wound Rotor Induction Machines**
IRMAK E., ÇOLAK İ., GÜLER N., Emre H., Kilisli H.
37th Int. Telecommunications Energy Conference~INTELEC'xx2015, 18 - 22 October 2015
- XXVIII. **Design Of A Computer Controlled Speed Control System for Wound-Rotor Induction Machines**
IRMAK E., Colak I., GÜLER N., Hazer E., Kilisli H.
IEEE International Telecommunications Energy Conference (INTELEC), Namba, PEOPLES R CHINA, 18 - 22 October 2015
- XXIX. **Short-Circuit Fault Analysis on Microgrid**
BAYINDIR R., IRMAK E., ISSI F., GÜLER N.
4th International Conference on Renewable Energy Research and Applications (ICRERA), Palermo, Italy, 22 - 25 November 2015, pp.1248-1252
- XXX. **Concept of 4th Dimension for Databases**
IRMAK E., Kurtuldu O.
IEEE 14th International Conference on Machine Learning and Applications ICMLA, Florida, United States Of America, 9 - 11 December 2015, pp.1159-1162
- XXXI. **A Survey on Public Awareness Towards Renewable Energy in Turkey**
IRMAK E., AYAZ M. S. , Gok S. G. , Sahin A. B.
3rd THE INTERNATIONAL CONFERENCE on RENEWABLE ENERGY RESEARCH and APPLICATIONS (ICRERA), Wisconsin, United States Of America, 19 - 22 October 2014, pp.932-937
- XXXII. **A Web Based Real Time Industrial Energy Monitoring System**
IRMAK E., BÜLBÜL H. İ. , KÖSE A., CALPBİNİCİ A.
Fourth International Conference on Power Engineering, Energy and Electrical Drives (POWERENG), İstanbul, Turkey, 13 - 17 May 2013, pp.1713-1716
- XXXIII. **The Estimation of Students' Academic Success by Data Mining Methods**
Goker H., BÜLBÜL H. İ. , IRMAK E.
12th International Conference on Machine Learning and Applications (ICMLA), Florida, United States Of America, 4 - 07 December 2013, pp.535-539
- XXXIV. **Monitoring the quality of electrical energy and improving it using thyristor controlled reactor**

IRMAK E., Colak I., Sagiroglu Ş., KÖSE A., Kabalci E.

1st International Conference on Renewable Energy Research and Applications, ICRERA 2012, Nagasaki, Japan, 11 - 14 November 2012

- XXXV. **FPGA based parallel connection system of separate voltage sources**
BÜLBÜL H. İ. , GÜLER N., IRMAK E., çalpinici a.
Renewable Energy Research and Applications (ICRERA), 2012 International Conference on, 11 - 13 November 2012
- XXXVI. **Yenilenebilir Enerji Kaynakları Üzerine Eğitim Amaçlı Bir Simulasyon Çalışması**
GÜLER N., Ersan M., IRMAK E.
1. Ulusal Meslek Yüksekokulları Çalıştayı ve Öğrenci Sempozyumu~UMÇÖS'xx2012, Turkey, 13 - 15 June 2012
- XXXVII. **Güneş Enerjisiyle Led li Aydınlatma Sistemi ve Operatör Panel Üzerinden İzleme ve Kontrol Uygulaması**
IRMAK E., KÖSE A.
Ulusal Meslek Yüksekokulları Çalıştayı ve Öğrenci Sempozyumu, Nevşehir, Turkey, 13 - 15 June 2012, pp.34-41
- XXXVIII. **Remote Monitoring and Reporting the Parameters of A Hybrid Power System via Internet**
ÇOLAK İ., IRMAK E., GÜLER N., ISSI F.
EVER'12, 22 - 25 March 2012
- XXXIX. **FPGA Based Parallel Connection System of Separate Voltage Sources**
IRMAK E., Colak I., Bulbul H. İ. , Guler N., Calpbiniçi A.
1st International Conference on Renewable Energy Research and Applications (ICRERA), Nagasaki, Japan, 11 - 14 November 2012
- XL. **Implementation of an Interactive Remote Laboratory Platform for Stepper Motor Experiments**
Irmak E., Çolak İ., Kabalci E., Köse A.
15th International Power Electronics and Motion Control Conference and Exposition (EPE-PEMC ECCE Europe), Novi-Sad, Serbia, 4 - 06 September 2012
- XLI. **A comparative study of harmonic extraction methods for single phase shunt active power filter**
ÇOLAK İ., BAYINDIR R., IRMAK E., KAPLAN O.
2011 International Conference on Power Engineering, Energy and Electrical Drives, Malaga, Spain, 11 - 13 May 2011
- XLII. **Design and Application of a Novel Zero Crossing Detector Circuit**
IRMAK E., ÇOLAK İ., KAPLAN O., GÜLER N.
International Conference on Power Engineering, Energy and Electrical Drives~POWERENG2011, 11 - 13 May 2011
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