

## Assoc. Prof. Mustafa BAYSAL

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Elektrik Mühendisliği, Turkey  
2002 - 2008

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Elektrik Mühendisliği, Turkey  
1998 - 2001

Undergraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Elektrik Mühendisliği, Turkey 1994 - 1998

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, HARMONİK İCEREN GÜÇ SİSTEMLERİNİN GERİLİM KARARLILIGININ YÜK MODELLEMELERİ VE FACTS  
ELEMANLARI BAKIMINDAN İNCELENMESİ, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences,  
Elektrik Mühendisliği, 2008

Postgraduate, PWM DC-DC DÖNÜŞTÜRÜCÜLERDE PASİF BASTIRMA DEVRELERİ , Yıldız Teknik Üniversitesi, Graduate  
School of Natural and Applied Sciences, Elektrik Mühendisliği, 2001

### Research Areas

Electrical and Electronics Engineering, Energy, Power System Analysis, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department,  
2022 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department,  
2009 - 2022

Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2000 - 2009

## Advising Theses

- Baysal M., Comparison of Flywheel and Li-ION Battery Energy Storage Systems and Performance Analysis of Hybrid Energy Storage System On Different Load Profiles, Postgraduate, İ.Cem(Student), 2019
- Baysal M., Smart Distribution Protection without Voltage Transformer, Postgraduate, F.ALPAŞLAN(Student), 2019
- Baysal M., SHORT-TERM LOAD FORECASTING FOR MICROGRIDS BASED ON FUZZY LOGIC, Postgraduate, J.Tapiwa(Student), 2018
- Baysal M., Power management strategy of stand-alone microgrid with hydrogen fuel cell and renewable sources, Postgraduate, J.MA(Student), 2018
- Baysal M., DEVELOPING MULTI AGENT CONTROL METHODS FOR IMPROVED OPERATIONAL CONDITIONS IN SMART DISTRIBUTION NETWORKS, Doctorate, G.ŞEN(Student), 2018
- Baysal M., DESIGN AND IMPLEMENTATION OF A DIGITAL SIGNAL PROCESSOR CONTROLLED STATIC (SMART) SWITCH FOR MICROGRID SYSTEMS, Postgraduate, T.ÖZER(Student), 2018
- Baysal M., A New Protection Philosophy For Medium Voltage Smart Distribution Network, Doctorate, A.SHOBOLE(Student), 2017
- BAYSAL M., Analysis and Assesment the Reliability of Distribution Power Systems, Doctorate, M.WADİ(Student), 2017
- BAYSAL M., Akıllı şebekeler altyapısına uygun bir orta gerilim trafo merkezinin tasarımı ve ekonomik analizi, Postgraduate, Y.Berkay(Student), 2016
- BAYSAL M., Mikroşebeke gerilim yapısına uygun 3 fazlı inverterin labview ile kontrol edilmesi ve geliştirilmesi, Postgraduate, C.AKTAŞ(Student), 2016
- BAYSAL M., Harmonic analysis of dimmable power leds for street lighting, Postgraduate, H.Fayek(Student), 2015
- BAYSAL M., Mikroşebeke yapısına uygun üç fazlı inverterin simülasyon modelinin geliştirilmesi ve analizi, Postgraduate, F.ÜLKER(Student), 2015
- BAYSAL M., Active and reactive power sharing of parallel inverters in microgrid by using droop control, Postgraduate, A.ISMAIL(Student), 2014
- BAYSAL M., Pv, rüzgar türbini ve batarya içeren hibrid enerji sistemlerinde iyileştirilmiş optimal ölçeklendirme, Postgraduate, G.GÜRİSOY(Student), 2014

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Dynamic Pricing Based on Demand Response Using Actor-Critic Agent Reinforcement Learning**  
Ismail A., BAYSAL M.  
Energies, vol.16, no.14, 2023 (SCI-Expanded)
- II. **Performance Analysis of the Dual-Setting Directional Overcurrent Relays-Based Protection Considering the Impact of Curve Types and Fault Location**  
Ashraf S., Evkay I., Selamoğulları U. S., Baysal M., Hasan O.  
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.51, no.7, pp.706-723, 2023 (SCI-Expanded)
- III. **Improving real-time energy decision-making model with an actor-critic agent in modern microgrids with energy storage devices**  
Bio Gassi K., BAYSAL M.  
Energy, vol.263, 2023 (SCI-Expanded)
- IV. **Islanding detection in microgrid using deep learning based on 1D CNN and CNN-LSTM networks**  
Ozcanli A. K., BAYSAL M.  
SUSTAINABLE ENERGY GRIDS & NETWORKS, vol.32, 2022 (SCI-Expanded)
- V. **Performance analysis of induction heated-porous thermochemical energy storage for heat applications in power systems**

Gassi K. B., Lougou B. G., BAYSAL M.

APPLIED THERMAL ENGINEERING, vol.217, 2022 (SCI-Expanded)

- VI. **Analysis of a linear programming-based decision-making model for microgrid energy management systems with renewable sources**  
Bio Gassi K., BAYSAL M.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.6, pp.7495-7518, 2022 (SCI-Expanded)
- VII. **Reliability and Sensitivity Analysis for Closed-Ring Distribution Power Systems**  
Wadi M., BAYSAL M., Shobole A.  
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.49, no.6-7, pp.696-714, 2022 (SCI-Expanded)
- VIII. **A novel Multi-LSTM based deep learning method for islanding detection in the microgrid**  
Ozcanli A. K., BAYSAL M.  
ELECTRIC POWER SYSTEMS RESEARCH, vol.202, 2022 (SCI-Expanded)
- IX. **Thermal and electrical performance analysis of induction heating based-thermochemical reactor for heat storage integration into power systems**  
Bio Gassi K., Guene Lougou B., BAYSAL M., Ahouannou C.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.12, pp.17982-18001, 2021 (SCI-Expanded)
- X. **Deep learning methods and applications for electrical power systems: A comprehensive review**  
Ozcanli A. K., Yaprakdal F., BAYSAL M.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.9, pp.7136-7157, 2020 (SCI-Expanded)
- XI. **A Deep Neural Network-Assisted Approach to Enhance Short-Term Optimal Operational Scheduling of a Microgrid**  
Yaprakdal F., Yilmaz M. B., BAYSAL M., Anvari-Moghaddam A.  
SUSTAINABILITY, vol.12, no.4, 2020 (SCI-Expanded)
- XII. **An Adaptive Protection Technique for Smart Distribution Network**  
Shobole A., BAYSAL M., Wadi M., Tur M. R.  
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.26, no.4, pp.46-56, 2020 (SCI-Expanded)
- XIII. **Optimal operational scheduling of reconfigurable microgrids in presence of renewable energy sources**  
YAPRAKDAL F., BAYSAL M., Anvari-Moghaddam A.  
Energies, vol.12, no.10, 2019 (SCI-Expanded)
- XIV. **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)
- XV. **Islanding Detection in Microgrids Using Harmonic Signatures**  
Merino J., Mendoza-Araya P., Venkataramanan G., BAYSAL M.  
IEEE TRANSACTIONS ON POWER DELIVERY, vol.30, no.5, pp.2102-2109, 2015 (SCI-Expanded)
- XVI. **Survey of power quality in Turkish national transmission network**  
Kocatepe C., Kekezoğlu B., Bozkurt A., Yumurtacı R., İnan A., Arıkan O., Baysal M., Akkaya Y.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.21, pp.1880-1892, 2013 (SCI-Expanded)
- XVII. **Assessment of power quality terms on energy distribution systems: a case study of Istanbul**  
KEKEZOĞLU B., BOZKURT A., ARIKAN O., KOCATEPE C., YUMURTACI R., BAYSAL M.  
PRZEGLAD ELEKTROTECHNICZNY, vol.88, 2012 (SCI-Expanded)
- XVIII. **Power quality assessment of grid-connected wind farms considering regulations in turkey**  
Kocatepe C., İnan A., Arıkan O., Yumurtacı R., Kekezoğlu B., Baysal M., Bozkurt A., Akkaya Y.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.13, no.9, pp.2553-2561, 2009 (SCI-Expanded)
- XIX. **A detailed analytical analysis of a passive resonant snubber cell perfectly constructed for a pulse width modulated d.c.-d.c. buck converter**  
Bodur H., Bakan A., Baysal M.  
ELECTRICAL ENGINEERING, vol.85, no.1, pp.45-52, 2003 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Dağıtık Üretime Sahip Şebekelerde Yük Karakteristiklerinin Koruma Sistemi Üzerine Etkisinin İncelenmesi**  
EVKAY İ., BAYSAL M., SELAMOĞULLARI U. S.  
European Journal of Science and Technology, no.33, pp.236-243, 2022 (Peer-Reviewed Journal)
- II. **HISTORICAL AND MONTE CARLO SIMULATION-BASED RELIABILITY ASSESSMENT OF POWER DISTRIBUTION SYSTEMS**  
Wadi M., BAYSAL M., Shobole A., Tur M. R.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, no.3, pp.1527-1540, 2020 (ESCI)
- III. **Online Energy Management Strategy Based on Adaptive Model Predictive Control for Microgrid with Hydrogen Storage**  
MA J., BAYSAL M.  
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.8, pp.861-870, 2018 (Scopus)
- IV. **Effects of Distributed Generations' Integration to the Distribution Networks Case Study of Solar Power Plant**  
Shobole A., BAYSAL M., Wadi M., TÜR M. R.  
INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH, vol.7, 2018 (Scopus)
- V. **RELIABILITY ASSESSMENT OF RADIAL NETWORKS VIA MODIFIED RBD ANALYTICAL TECHNIQUE**  
WADI M. J., BAYSAL M.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.35, pp.717-726, 2017 (Peer-Reviewed Journal)
- VI. **Protection Coordination in Electrical Substation Part-2 Unit Protections (Differential and Distance Protection) -Case Study of Siddik Kardesler Substation (SKS), Istanbul, Turkey**  
Shobole A., BAYSAL M., Wadi M., Tur M. R.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.30, no.4, pp.163-178, 2017 (ESCI)
- VII. **Protection Coordination Practice in Electrical Substation Part-1 Overcurrent and Earth Fault Protection - Case Study of Siddik Kardesler Substation (SKS), Istanbul, Turkey**  
Shobole A., BAYSAL M., Wadi M., Tur M. R.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.30, no.4, pp.180-198, 2017 (ESCI)
- VIII. **Elektrikli Ofis Cihazlarında Güç Faktörü ve  $\cos\phi$  İncelenmesi**  
KEKEZOĞLU B., ARIKAN O., KOCATEPE C., YUMURTACI R., BAYSAL M., BOZKURT A.  
3e Electrotech, no.174, 2008 (Non Peer-Reviewed Journal)
- IX. **Elektrikli Ofis Donanımlarının Harmonik Etkilerinin İncelenmesi**  
KEKEZOĞLU B., ARIKAN O., KOCATEPE C., YUMURTACI R., BAYSAL M., BOZKURT A.  
3e Electrotech, no.168, 2008 (Non Peer-Reviewed Journal)
- X. **Elektrikli Ofis Cihazlarında Güç Faktörü ve  $\cos(\phi)$  nin İncelenmesi**  
KEKEZOĞLU B., ARIKAN O., KOCATEPE C., YUMURTACI R., BAYSAL M., BOZKURT A.  
3e Electrotech, no.174, pp.110-114, 2008 (Non Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Harmonic Effects of Power System Loads: An Experimental Study**  
KOCATEPE C., YUMURTACI R., ARIKAN O., BAYSAL M., KEKEZOĞLU B., BOZKURT A., KUMRU C. F.  
in: Power Quality Issues, Zobia A., Editor, Intech, Rijeka, pp.175-200, 2013

## Refereed Congress / Symposium Publications in Proceedings

- I. **ELEKTRİK DAĞITIM ŞEBEKELERİNDE KNN ALGORİTMASI KULLANILARAK ARIZA YERİNİN TESPİTİ**  
ÖZTÜRK E., BAYSAL M.  
10TH INTERNATIONAL ERCİYES SCIENTIFIC RESEARCH CONGRESS, Kayseri, Turkey, 23 December 2023, pp.51-52
- II. **The Importance of Classification in Reducing the Congestion Price in Peer-to-peer Energy Trading**  
HANARI A., BAYSAL M.  
1st International Conference on Contemporary Academic Research ICCAR 2023, Konya, Turkey, 17 May 2023, pp.146-150
- III. **The Comparison of Multiple Clustering Techniques to be Used in Transition to Zonal Electricity Market: A Case Study of Turkey**  
Al-Rawe S. H. A., BAYSAL M., Tadesse Y. Y.  
5th IEEE Global Power, Energy and Communication Conference, GPECOM 2023, Cappadocia, Turkey, 14 - 16 June 2023, pp.466-471
- IV. **WIND SPEED ESTIMATION USING THE UNIVARIATE LSTM METHOD**  
TUNCER A., BAYSAL M.  
V. INTERNATIONAL "BAŞKENT" CONGRESS ON PHYSICAL, SOCIAL AND HEALTH SCIENCES, Ankara, Turkey, 11 June 2022
- V. **ENERGY AND GREENHOUSE GAS EMISSIONS ANALYSIS OF WASTE-TO-ENERGY PLANT: A CASE STUDY OF SEYMEN PLANT IN ISTANBUL**  
YILDIZ Ö. M., BAYSAL M.  
V. INTERNATIONAL "BAŞKENT" CONGRESS ON PHYSICAL, SOCIAL AND HEALTH SCIENCES, Ankara, Turkey, 11 June 2022
- VI. **Single Dual Setting Directional Over-current Relay Based Line Protection Logic for Distributed Generation Integrated Power Systems**  
EVKAY İ., ASHRAF S., BAYSAL M., SELAMOĞULLARI U. S., HASAN O.  
2nd Global Power, Energy and Communication Conference (GPECOM), İzmir, Turkey, 20 October 2020, pp.245-250
- VII. **Microgrid aggregated load short-term forecasting using a Long Short Term Memory Recurrent Neural Network**  
BAYSAL M., BIO GASSI K., DAGAL I.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 17 - 19 December 2019
- VIII. **Phase change material based heat storage analysis for its integration into renewable microgrid**  
BAYSAL M., BIO GASSI K., IDRİSS D.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 17 - 19 December 2019
- IX. **Feasibility Study of Wind Energy Potential in Turkey Case Study of Çatalca District in Istanbul**  
WADI M. J., KEKEZOĞLU B., BAYSAL M., SHOBOLE A. A., TÜR M. R.  
2nd International Conference on Smart Grid and Renewable Energy, DOHA, Qatar, 19 - 22 November 2019
- X. **Senkron Generatör İçeren Mikroşebekelerde Farklı Çalışma Koşullarındaki Harmonik Analizi**  
KAYMAZÖZCANLI A., BAYSAL M.  
Elektrik Elektronik Mühendisliği Kongresi EEMKON 2019, İstanbul, Turkey, 14 November 2019, pp.287-292
- XI. **THE EFFECT OF ISLANDING ON HARMONIC DISTORTION IN THE INVERTER-BASED MICROGRID**  
KAYMAZÖZCANLI A., BAYSAL M.  
World Energy Strategies Congress and Exhibition, 26 - 28 August 2019
- XII. **COMPARISON OF FLYWHEEL AND LI-ION BATTERY ENERGY STORAGE SYSTEMS AND PERFORMANCE ANALYSIS OF HYBRID ENERGY STORAGE SYSTEM ON DIFFERENT LOAD PROFILES**  
AÇIKGÖZ İ. C., BAYSAL M.  
4th International Conference on Computational Mathematics and Engineering Sciences, Antalya, Turkey, 20 April 2019, pp.252
- XIII. **Smart Distribution Protection with no Voltage Transformer**  
ALPASLAN F., BAYSAL M.  
First International Symposium on Graduate Research in Science Focus on Entrepreneurship and Innovation (ISGRS 2018), 4 - 06 October 2018
- XIV. **Multi agent-based decentralized control for improving the efficiency and voltage regulation in smart**

## **microgrid**

Sen G., BAYSAL M.

2018 International Conference on Smart Energy Systems and Technologies, SEST 2018, Sevilla, Spain, 10 - 12 September 2018

- XV. **Smart hybrid wind-solar street lighting system fuzzy based approach: Case study Istanbul-Turkey**  
Wadi M., Shobole A., TUR M. R., BAYSAL M.  
6th International Istanbul Smart Grids and Cities Congress and Fair, ICSG 2018, İstanbul, Turkey, 25 - 26 April 2018, pp.71-75
- XVI. **Multi agent-based control techniques to reduce losses for smart grid connected microgrids**  
Sen G., BAYSAL M.  
6th International Istanbul Smart Grids and Cities Congress and Fair, ICSG 2018, İstanbul, Turkey, 25 - 26 April 2018, pp.173-177
- XVII. **Reliability Evaluation in Smart Grids via Modified Monte Carlo Simulation Method**  
Wadi M., BAYSAL M., Shobole A., Tur M. R.  
7th International Conference on Renewable Energy Research and Applications (ICRERA), Paris, France, 14 - 17 October 2018, pp.841-845
- XVIII. **Protection Coordination Practices for Industrial Ring Distribution Network Case Study of Organized Industrial Zone (GEBZE, Turkey)**  
Shobole A., BAYSAL M., Wadi M., Tur M. R.  
7th International Conference on Renewable Energy Research and Applications (ICRERA), Paris, France, 14 - 17 October 2018, pp.1027-1031
- XIX. **Design and Simulation of A Three-Phase Static Smart Switch for Microgrid**  
ÖZER T., BAYSAL M.  
8th International Advanced Technologies Symposium, 19 October 2107 - 22 October 2017, pp.3557-3564
- XX. **Short Term Load Forecasting for Microgrids Based On Fuzzy Logic**  
MUTSENA J. T., BAYSAL M.  
International Conference on Engineering Technologies, 7 - 09 December 2107, pp.434-439
- XXI. **On-Line Energy Management Strategy for Hybrid Electric Vehicle Based on AMPC**  
Jun M., SHAH A. S., BAYSAL M., İLHAN H.  
IEEE 10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017
- XXII. **On-Line energy management strategy for hybrid electric vehicles based on AMPC**  
Jun M., Shah A., Baysal M., İlhan H.  
The 10th International Conference on Electrical and Electronics Engineering (IEEE ELECO2017), Bursa, Turkey, 30 November - 02 December 2017, pp.1-5
- XXIII. **Real time active power control in smart grid**  
SHOBOLE A., WADI M., TÜR M. R., BAYSAL M.  
2017 IEEE 6th International Conference on Renewable Energy Research and Applications, 5 - 08 November 2017, pp.585-590
- XXIV. **Modeling And Simulation Of Split Shaft Micro Turbine Generation Systems Based On Fuel Consumption**  
ÇELİK Ş., KEKEZOĞLU B., BAYSAL M.  
The 8th International Advanced Technologies Symposium (IATS 2017), Elazığ, Turkey, 19 - 21 October 2017
- XXV. **Comparison between Open-Ring and Closed-Ring Grids Reliability**  
WADI M., BAYSAL M., SHOBOLE A.  
2017 4TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONIC ENGINEERING (ICEEE 2017), Ankara, Turkey, 8 - 10 April 2017, pp.290-294
- XXVI. **Improving the Fault Ride through Capability and Stability of Wind Farms with DFIG Wind Turbine by using Statcom**  
Abdulfetah S., Karakaş A., Selamoğulları U. S., Baysal M.  
17th International Conference on Electrical and Computer Systems Engineering, Paris, France, 27 - 28 August 2015

- XXVII. **Performance Comparison of Droop Control Methods for Parallel Inverters in Microgrid**  
ahmed i., BAYSAL M.  
ICEC 2015 : 17th International Conference on Entertainment Computing, 27 - 28 August 2015
- XXVIII. **Improved Optimal Sizing of Hybrid PV/Wind/Battery Energy Systems**  
Gursoy G., BAYSAL M.  
3rd THE INTERNATIONAL CONFERENCE on RENEWABLE ENERGY RESEARCH and APPLICATIONS (ICRERA),  
Wisconsin, United States Of America, 19 - 22 October 2014, pp.713-716
- XXIX. **Energy management algorithm for smart home with renewable energy sources**  
BOYNUEĞRİ A. R., YAĞCITEKİN B., BAYSAL M., KARAKAŞ A., UZUNOĞLU M.  
4th International Conference on Power Engineering, Energy and Electrical Drives, 13 - 17 May 2013
- XXX. **Investigation of Harmonic Effect in Turkey's Iron Steel Industry**  
KEKEZOĞLU B., KOCATEPE C., YUMURTACI R., ARIKAN O., BAYSAL M., BOZKURT A., AKKAYA Y., Özdemirci E.  
The 6th International Conference, 2008 Power Quality and Supply Reliability (PQ2008), Parnu, Estonia, 27 August  
2008, pp.435-439
- XXXI. **Güç Sistem Gerilim Kararlılığında Yük Modellemelerinin Önemi**  
BAYSAL M., UZUNOĞLU M., KOCATEPE C.  
12. Elektrik Elektronik Bilgisayar Biyomedikal Mühendisliği Ulusal Kongresi ve Sergisi, Eskişehir, Turkey, 14  
November 2007
- XXXII. **Güç Sistem Gerilim Kararlılığında Yük Modellemelerinin Önemi**  
BAYSAL M., UZUNOĞLU M., KOCATEPE C.  
12. ELEKTRİK-ELEKTRONİK-BİLGİSAYAR MÜHENDİSLİĞİ ULUSAL KONGRESİ, 01 November 2007, pp.321-325
- XXXIII. **Güç Sistemlerinde Araharmonikler ve Etkileri**  
KEKEZOĞLU B., KOCATEPE C., YUMURTACI R., BAYSAL M., ARIKAN O., BOZKURT A.  
Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 May 2007, pp.263-266
- XXXIV. **Dağıtım Sisteminde Kısa Devre Gücünün Harmonik Bozulmaya Etkisi**  
KOCATEPE C., YUMURTACI R., BAYSAL M., ARIKAN O., BOZKURT A., KEKEZOĞLU B.  
Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 May 2007, pp.267-271
- XXXV. **Harmoniklerin Kompanzasyon Tesisleri Üzerindeki Etkilerinin Rezonans Olayları Bakımından İncelenmesi**  
YUMURTACI R., ARIKAN O., BOZKURT A., KOCATEPE C., BAYSAL M., KEKEZOĞLU B.  
Enerji Verimliliği ve Kalitesi Sempozyumu (EVK 2007), Kocaeli, Turkey, 17 May 2007, pp.272-277
- XXXVI. **Dağıtım Sisteminde Kısa Devre Gücünün Harmonik Bozulmaya Etkisi**  
KOCATEPE C., YUMURTACI R., BAYSAL M., ARIKAN O., BOZKURT A., KEKEZOĞLU B.  
Enerji Verimliliği ve Kalitesi Sempozyumu (EVK 2007), Kocaeli, Turkey, 17 May 2007, pp.267-271
- XXXVII. **Transient Analysis of Medium-Length Transmission Lines**  
K C., BAYSAL M.  
3RD INTERNATIONAL SYMPOSIUM ON ELECTRICAL, ELECTRONIC AND COMPUTER ENGINEERING, 01 November  
2006, pp.209-213
- XXXVIII. **State-space Transient Analysis of Transmission Lines Using Eigenanalysis**  
BAYSAL M., KOCATEPE C., KARAKAS A.  
4th International Conference on Electrical and Power Engineering, 01 October 2006, pp.1325-1330
- XXXIX. **Tristör Kontrollü Seri Kompanzasyon Metodlarının Karşılaştırılması**  
BAYSAL M., KOCATEPE C., UZUNOĞLU M.  
11. Elektrik Elektronik Bilgisayar Mühendisliği Ulusal Kongresi, İstanbul, Turkey, 22 September 2005
- XL. **Tristör Kontrollü Seri Kompanzasyon Metodlarının Karşılaştırılması**  
BAYSAL M., KOCATEPE C., UZUNOĞLU M.  
ELEKTRİK-ELEKTRONİK-BİLGİSAYAR MÜHENDİSLİĞİ 11. ULUSAL KONGRESİ, 01 September 2005, vol.2, pp.425-  
428
- XLI. **Harmonikli Sistemlerde Filtre Uygulamasının Karşılaştırılması**  
KARAKAŞ A., KOCATEPE C., BAYSAL M., ÇAKIR H.  
1. Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 May 2005

- XLII. Güç Sistemlerinde Araharmyonikler Ve Etkileri**  
KEKEZOĞLU B., KOCATEPE C., YUMURTACI R., BAYSAL M., ARIKAN O., BOZKURT A.  
Enerji Verimliliği ve Kalitesi Sempozyumu (EVK 2007), Kocaeli, Turkey, 17 May 2005, pp.263-266
- XLIII. Harmonikli Sistemlerde Filtre Uygulamasının Karşılaştırılması**  
KOCATEPE C., BAYSAL M., ÇAKIR H.  
1. ENERJİ VERİMLİLİĞİ VE KALİTESİ SEMPOZYUMU, 01 May 2005, pp.258-262
- XLIV. The State of Corona Discharge in High Voltage Transmission Line under Non Linear Conditions using ANN**  
TANRIÖVEN M., ACARKAN B., BAYSAL M., KARAKAŞ A.  
International Conference on Fuzzy Systems and Soft Computational Intelligence in Management and Industrial Engineering, FSSCIMIE 2002, İstanbul, Turkey, 29 - 31 May 2002, pp.31-36
- XLV. The Determination Of Calibration Values Of Spherical Electrode For High Voltage Measuring By Fuzzy Algorithms**  
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BAYSAL M., TUBİTAK Project, "Güvenlik Kontrollü" Akıllı Priz Tasarımı, 2017 - 2018

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BAYSAL M., Project Supported by Other Official Institutions, BEDAS, Orta Gerilim Şebekesinin Kapalı Ring İşletimi İçin Koruma/Kontrol Sisteminin Tasarımı, OG Şebekesinin Kapalı Ring İşletimi İçin Yeniden Yapılandırılması ve Pilot Bölge Uygulaması, 2013 - 2016

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