

Asst. Prof. BURAK URAZEL

Personal Information

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International Researcher IDs

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Yoksis Researcher ID: 20708

Education Information

Doctorate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), Turkey 2011 - 2018

Postgraduate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Anabilim Dalı, Turkey 2008 - 2011

Undergraduate, Anadolu University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering (English), Turkey 2004 - 2008

Dissertations

Doctorate, Uygun değerler temelli geliştirilmiş subgradient algoritmasının kısa dönem hidrotermal koordinasyon problemine uygulanması, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), 2017

Postgraduate, Uygun değerler temelli geliştirilmiş subgradient algoritmasının bazı elektrik enerji sistemi optimal işletim problemlerine uygulanması, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Anabilim Dalı, 2011

Research Areas

Power System Analysis, Electric Power Transmission, Distribution and Protection

Academic Titles / Tasks

Assistant Professor, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Elektrik Elektronik Mühendisliği Bölümü, 2017 - Continues

Research Assistant, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Elektrik Elektronik Mühendisliği Bölümü, 2009 - 2017

Academic and Administrative Experience

Deputy Head of Department, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Elektrik Elektronik Mühendisliği Bölümü, 2020 - Continues

Courses

Introduction to Project Management, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Economic Operation of Electric Energy Systems, Postgraduate, 2020 - 2021
Optimization Methods For Engineering Applications, Undergraduate, 2020 - 2021
Introduction to Linear Transformations, Postgraduate, 2020 - 2021, 2019 - 2020
Introduction to Project Management, Undergraduate, 2020 - 2021, 2017 - 2018
Introduction to Electrical and Electronics Engineering, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Energy Transmission Lines, Undergraduate, 2020 - 2021
Engineering Graphics, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
Introduction to Electrical and Electronics Engineering, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
Energy Transmission Lines, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
Engineering Graphics, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
Occupational Health and Safety in Electrical Engineering, Undergraduate, 2019 - 2020, 2018 - 2019
Occupational Health and Safety in Electrical Engineering, Undergraduate, 2019 - 2020, 2018 - 2019
Principles of Energy Conversion, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Fuel constrained combined heat and power dispatch problem using marine predators algorithm**
KESKİN K., URAZEL B.
Electrical Engineering, vol.105, no.6, pp.4011-4023, 2023 (SCI-Expanded)
- II. **A modified metaheuristic algorithm for a home health care routing problem with health team skill levels**
Somar S., URAZEL B., BURUK ŞAHİN Y.
Applied Soft Computing, vol.148, 2023 (SCI-Expanded)
- III. **A new solution approach for non-convex combined heat and power economic dispatch problem considering power loss**
URAZEL B., KESKİN K.
Energy, vol.278, 2023 (SCI-Expanded)
- IV. **High-Dimension EEG Biometric Authentication Leveraging Sub-Band Cube-Code Representation**
IŞIKLI ESENER İ., Kilinc O., URAZEL B., Yaman B. N., İLHAN ALGIN D., ERGİN S.
TRAITEMENT DU SIGNAL, vol.40, no.5, pp.1983-1995, 2023 (SCI-Expanded)
- V. **Solution to security constrained environmental/economic pumped-storage hydraulic unit scheduling problem by modified subgradient algorithm based on feasible values and pseudo water price**
FADIL S., URAZEL B.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.60, pp.399-413, 2014 (SCI-Expanded)
- VI. **A security constrained environmental/economic power dispatch technique using F-MSG algorithm for a power system area including limited energy supply thermal units**
FADIL S., URAZEL B.
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.56, pp.185-197, 2014 (SCI-Expanded)
- VII. **Solution to Security-constrained Non-convex Pumped-Storage Hydraulic Unit Scheduling Problem by Modified Subgradient Algorithm Based on Feasible Values and Pseudo Water Price**
FADIL S., URAZEL B.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.41, no.2, pp.111-135, 2013 (SCI-Expanded)
- VIII. **A solution to security constrained non-convex economic dispatch problem by modified subgradient algorithm based on feasible values**

FADIL S., YAZICI A., URAZEL B.

INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.43, no.1, pp.849-858, 2012 (SCI-Expanded)

- IX. **A Security-constrained Economic Power Dispatch Technique Using Modified Subgradient Algorithm Based on Feasible Values and Pseudo Scaling Factor for a Power System Area Including Limited Energy Supply Thermal Units**

FADIL S., YAZICI A., URAZEL B.

ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.39, no.16, pp.1748-1768, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Solving a Cubic Cell Formation Problem with Quality Index Using a Hybrid Meta-Heuristic Approach**
Urazel B., Buruk Şahin Y.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.36, no.2, pp.752-771, 2023 (Scopus)
- II. **SOC ESTIMATION FOR BATTERY OF ELECTRIC VEHICLES**
Keskin B., SORA GUNAL E., urazel b., Keskin K.
Nicel bilimler dergisi (Online), vol.4, no.2, pp.161-175, 2022 (Peer-Reviewed Journal)
- III. **Reliability Analysis of Energy Efficient Mobile Robot Routing**
Urazel B., Taş M. O.
Journal of Multidisciplinary Engineering Science Studies, vol.7, no.6, pp.3935-3941, 2021 (Peer-Reviewed Journal)
- IV. **A Hybrid Solution Approach for Electric Vehicle Routing Problem with Soft Time-Windows**
URAZEL B., KESKİN K.
El-Cezeri Fen ve Mühendislik Dergisi, vol.8, no.2, pp.994-1006, 2021 (Scopus)
- V. **Fuzzy control of dual storage system of an electric drive vehicle considering battery degradation**
KESKİN K., URAZEL B.
An International Journal of Optimization and Control: Theories Applications (IJOCTA), vol.11, no.1, pp.30-40, 2021 (ESCI)
- VI. **Electric Drive Vehicle Model and Simulation with MATLAB**
URAZEL B., KESKİN K.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, no.4, pp.2461-2473, 2020 (Peer-Reviewed Journal)
- VII. **Application of Modified Subgradient Algorithm Based on Feasible Values to Security Constrained Non Convex Economic Dispatch Problems with Prohibited Zones and Ramp Rates**
FADIL S., URAZEL B., TAMYÜREK B.
IJEEE, vol.4, no.1, pp.1-8, 2016 (Peer-Reviewed Journal)
- VIII. **Yasak İşletim Bölgesi Birimler İçeren Elektrik Enerji Sisteminde Çevresel Ekonomik Güç Dağıtım Probleminin Uygun Değerler Temelli Genişletilmiş Subgradyent Yöntemiyle Çözümü**
FADIL S., URAZEL B.
3e Electrotech, no.237, pp.206-218, 2014 (Peer-Reviewed Journal)
- IX. **Pompayla Doldurulmalı Hidrolik Birim İçeren Elektrik Enerji Sisteminde Optimal Güç Dağıtım Probleminin Uygun Değerler Temelli Genelleştirilmiş Subgradyent Yöntemiyle Çözümü**
FADIL S., URAZEL B.
3e Electrotech, vol.226, pp.174-186, 2013 (Peer-Reviewed Journal)
- X. **Solution to Security Constrained Environmental Pumped Storage Hydraulic Unit Scheduling Problem by Genetic Algorithm**
FADIL S., URAZEL B., Demir C.
ISRN Power Engineering, vol.2013, pp.1-12, 2013 (Peer-Reviewed Journal)
- XI. **Güvenlik Kısıtlı Aktif ve Reaktif Güç Dağıtım Probleminin Uygulanabilir Değerler Üzerinde Çalışan Genişletilmiş Subgradyent Yöntemiyle Çözümü**
FADIL S., URAZEL B.
3e Electrotech, no.214, pp.110-120, 2012 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **A Multi-Objective Approach for a Cubic Cell Formation with Quality Index**
BURUK ŞAHİN Y., URAZEL B.
International Conference on Applied Mathematics in Engineering (ICAME), Balıkesir, Turkey, 01 September 2021
- II. **Application of Modified Subgradient Algorithm Based on Feasible Values to Security Constrained Non convex Economic Dispatch Problems with Prohibited Zones and Ramp Rates**
FADIL S., URAZEL B., TAMYÜREK B.
ASR 2015 2nd International Conference on Electrical and Electronics Engineering, ICEE, Ankara, Turkey, 28 - 29 April 2015
- III. **Solution to Short Term Hydrothermal Scheduling Problem by Modified Subgradient Algorithm Based on Feasible Values**
FADIL S., URAZEL B.
9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.505-509
- IV. **A Genetic Algorithm Approach for Multi Objective Multi Depot Vehicle Routing Allocation Problem**
ÖZDEN G., GOCUKLU G., URAZEL B.
26th European Conference on Operational Research, 1 - 04 July 2013
- V. **Application of Modified Subgradient Algorithm Based on Feasible Values to Security Constrained Economic Dispatch Problem with Prohibited Operation Zones**
FADIL S., URAZEL B.
8th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2013, pp.549-553
- VI. **Solution to Security Constrained Pumped Storage Hydraulic Unit Scheduling Problem by Using Modified Subgradient Algorithm Based on Feasible Values**
FADIL S., URAZEL B., Gök E.
ELECO 2011 7th International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 1 - 04 December 2011, vol.1, pp.96-100
- VII. **Solution to Security Constrained Lossy Economic Power Dispatch Problem for a Power System Area Including Limited Energy Supply Thermal Units Using Modified Subgradient Algorithm Based on Feasible Values**
FADIL S., YAZICI A., URAZEL B.
ELECO 2011 7th International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 1 - 04 December 2011, vol.1, pp.33-37
- VIII. **A Security Constrained Environmental Economic Power Dispatch Technique Using F MSG Algorithm for a Power System Area Including Limited Energy Supply Thermal Units**
FADIL S., YAZICI A., URAZEL B.
ELECO 2011 7th International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 1 - 04 December 2011, vol.1, pp.33-37
- IX. **Güvenlik Kısıtlı Aktif ve Reaktif Güç Dağıtım Probleminin Uygulanabilir Değerler Üzerinde Çalışan Genişletilmiş Subgradyent Yöntemiyle Çözümü**
FADIL S., URAZEL B.
ELECO'2010, Bursa, Turkey, 2 - 05 December 2010, pp.98-102

Supported Projects

Keskin K., Urazel B., Project Supported by Higher Education Institutions, Elektrikli Araç Dinamiğinin MATLAB Ortamında Gerçeklenmesi, 2020 - 2021

Metrics

Publication: 29

Citation (WoS): 48

Citation (Scopus): 59

H-Index (WoS): 4

H-Index (Scopus): 5