Res. Asst. Cenk Andiç

Personal Information

Email: andic18@itu.edu.tr
Web: https://avesis.itu.edu.tr/andic18

International Researcher IDs
ScholarID: kcNgCt8AAAAJ
ORCID: 0000-0003-1123-899X
Yoksis Researcher ID: 329053

Research Areas

Electrical and Electronics Engineering

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A novel honey badger algorithm based load frequency controller design of a two-area system with renewable energy sources**
Ozumcan S., Ozturk A., Varan M., Andiç C.
Energy Reports, vol.9, pp.272-279, 2023 (SCI-Expanded)

II. **A robust crow search algorithm based power system state estimation**
Andiç C., Ozturk A., Türkay B.
Energy Reports, vol.9, pp.490-501, 2023 (SCI-Expanded)

III. **Enhancing transient response performance of automatic voltage regulator system by using a novel control design strategy**
CAN Ö., Andiç C., Ekinci S., Izci D.
Electrical Engineering, vol.105, no.4, pp.1993-2005, 2023 (SCI-Expanded)

IV. **Power system state estimation using a robust crow search algorithm based on PMUs with limited number of channels**
Andiç C., Ozturk A., Türkay B.
Electric Power Systems Research, vol.217, 2023 (SCI-Expanded)

Articles Published in Other Journals

I. **Dynamic Economic Dispatch with Valve-Point Effect Using Crow Search Algorithm**
ANDİÇ C., ÖZTÜRK A., TOSUN S.
Balkan Journal of Electrical and Computer Engineering, vol.10, pp.237-244, 2022 (Peer-Reviewed Journal)

II. **Economic Dispatch by Using Crow Search Algorithm Power System in Turkey**
Andiç C., Öztürk A., Tosun S.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.8, no.1, pp.428-436, 2020 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Karga Arama Algoritması**
ANDİÇ C.
in: TEKNOBİLİM-2023: Yapay Zeka ve Mühendislik, Andiç, Cenk, Editor, Efe Akademi Yayınları, pp.61-74, 2023

II. **Yapay Zekaya Temelli Enerji Depolama Sistemleri ve Yenilenebilir Enerji Kaynaklarının Entegrasyonu**
Andiç C.
in: TEKNOBİLİM 2022: Enerji Krizi ve Yenilenebilir Enerji, Ceren KAHRAMAN, Editor, EFE AKADEMİ YAYINLARI, İstanbul, pp.428-436, 2022

Refereed Congress / Symposium Publications in Proceedings

I. **The Effect of Economic Conditions on Optimal Sizing and Feasibility of Hybrid Power System**
TERKEŞ M., DEMİRCİ A., ÖZTÜRK Z., ÖZTÜRK A., TOSUN S., ANDİÇ C.
14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING (ELECO), Turkey, 30 November 2023

II. **Enhancing State Estimation Accuracy in Power Systems: An ANN-Based Data Mining Approach Defending Cyber Attacks**
ANDİÇ C., ÖZTÜRK A., TÜRKAY B.
14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING (ELECO), Turkey, 30 November - 02 December 2023

III. **Forecasting of Wind Turbine Output Power with Artificial Neural Network in Izmir, Türkiye**
ŞEN A., ANDİÇ C., AYDIN E., PÜRLÜ M., TÜRKAY B.
14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING (ELECO), Turkey, 30 November 2023

IV. **Minimization of Residential Electricity Bill using EMS**
ALAY H., ANDİÇ C., AYDIN E., PÜRLÜ M., TÜRKAY B.
14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING (ELECO), Turkey, 30 November 2023

V. **Short Term Load Forecasting Using Machine Learning Algorithms: A Case Study in Turkey**
PÜRLÜ M., ANDİÇ C., TÜRKAY B., Nobari A.
IEEE Global Energy Conference (GEC2022), Turkey, 26 October 2022, vol.1, pp.13-18

VI. **The Application of HBA Technique to Economic Dispatch: A Case Study From Turkey**
ANDİÇ C., AYDIN E., ÖZTÜRK A., TÜRKAY B.
IEEE Global Energy Conference (GEC2022), Turkey, 26 October 2022, vol.1, pp.258-261

VII. **False Data Injection Attacks on CSA-Based State Estimation in Smart Grid**
ANDİÇ C., ÖZTÜRK A., TÜRKAY B.
IEEE Global Energy Conference (GEC2022), Turkey, 26 October 2022, vol.1, pp.253-257

VIII. **Seconder Frequency Controller Design of A Two-Area System Via Crow Search Algorithm**
ANDİÇ C.
International Congress of New Horizons in Sciences (INCOHIS), İstanbul, Turkey, 16 December 2022, vol.1, pp.86-91

IX. **Optimum Energy Management in Electric Vehicle Parking Lots Using Heuristic Methods**
CANOL B., ANDİÇ C., PÜRLÜ M., TÜRKAY B.
2022 IEEE 4th Global Power, Energy and Communication Conference (GPECOM), Turkey, 14 - 17 June 2022, pp.473-477

X. **Honey Badger Algorithm Based Tuning of PID Conroller for Load Frequency Control in Two-Area Power System Including Electric Vehicle Battery**
ANDİÇ C., Özümcan S., ÖZTÜRK A., TÜRKAY B.
2022 IEEE 4th Global Power, Energy and Communication Conference (GPECOM), Turkey, 14 - 17 June 2022,

pp.307-310

XI. **Rotor Angle Stability Analysis by Using Lyapunov's Direct Method of a SMIB Power System**
ANDİÇ C., ÖZTÜRK A., TÜRKAY B.
2022 IEEE 4th Global Power, Energy and Communication Conference (GPECOM), Turkey, 14 - 17 June 2022, pp.296-300

XII. **Market-Clearing Price Forecasting Using Keras in Turkish Day-Ahead Electricity Market**
PÜRLÜ M., TÜRKAY B., ANDİÇ C., AYDIN E., CANOL B., KÜÇÜKASLAN B.
2022 IEEE 4th Global Power, Energy and Communication Conference (GPECOM), Turkey, 14 - 17 June 2022, pp.517-522

XIII. **Honey badger algorithm for AGC of two-area power system**
Andiç C., Özümcan S., Öztürk A.
IMASCON2021 Autumn, Kocaeli, Turkey, 19 - 21 November 2021, pp.2

XIV. **Yusufçuk algoritması kullanılarak doğalgaz çevrim santrallerinde yük frekans kontrolü**
Hoş B., Öztürk A., Tosun S., Andiç C.
IMASCON2021 Autumn, Kocaeli, Turkey, 19 - 21 November 2021, pp.563-571

XV. **χ2 Test For Detecting Bad Data In WLS State Estimation**
Andiç C., Öztürk A., Tosun S.
ISPEC 11th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Muş, Turkey, 17 - 18 September 2021, pp.120-128

XVI. **İki alanlı güç sistemlerinde bulanık mantık kontrolör kullanarak otomatik üretim kontrolü**
Can Ö., Öztürk A., Andiç C.
BILMES EN 2020, Ankara, Turkey, 12 - 15 December 2020, pp.439-448

XVII. **Çift beslemeli asenkron generatörün back to back konvertör ile şebeke bağlantılı kontrolü**
Andiç C.
IMASCON2020 Autumn, Kocaeli, Turkey, 4 - 05 December 2020, vol.1, pp.207-213

XVIII. **İki alanlı enterkonnekte güç sisteminin otomatik üretim kontrolü**
Andiç C., Öztürk A., Can Ö.
IMASCON2020 Autumn, Kocaeli, Turkey, 4 - 05 December 2020, pp.214-222

XIX. **Genetik algoritma kullanılarak valf nokta etkili ekonomik ve çevresel yük dağıtımı**
Andiç C., Öztürk A., Tosun S.
IMASCON2020 Autumn, Kocaeli, Turkey, 4 - 05 December 2020, pp.194-206

XX. **INVESTIGATION OF POWER SYSTEM STATE ESTIMATION BY USING ITERAVELY REWEIGHTED LEAST SQUARES METHOD**
Andiç C., Öztürk A., Tosun S.
International Marmara Sciences Congress (Autumn 2019), Kocaeli, Turkey, 1 - 03 November 2019, vol.1, pp.124-131

XXI. **KARGA ARAMA ALGORİTMASI KULLANILARAK VALF NOKTA ETKİLİ EKONOMİK YÜK DAĞITIMI PROBLEMİNİN ÇÖZÜLMESİ**
Andiç C., Öztürk A., Tosun S.
IV. ULUSLARARASI BİLİMSEL VE MESLEKİ ÇALIŞMALAR KONGRESİ – MÜHENDİSLİK (BILMES EN 2019 - ANKARA), Ankara, Turkey, 7 - 09 November 2019, vol.1, pp.98-105

XXII. **Türkiye'deki Güç Sisteminde Parçacık Sürü Optimizasyon Algoritması Kullanılarak Ekonomik Yük Dağıtımı**
Andiç C.
ULUSLARARASI BİLİM, TEKNOLOJİ VE SOSYAL BİLİMLERDE GÜNCEL GELİŞMELER SEMPOZYUMU, Ankara, Turkey, 21 - 22 December 2019, vol.2, pp.200-209

XXIII. **OPTIMAL PLACEMENT OF TCSC IN POWER SYSTEM FOR VOLTAGE STABILITY**
Andiç C., Öztürk A., Tosun S., Bozali B.
International Marmara Sciences Congress (Autumn 2019), Kocaeli, Turkey, 1 - 03 November 2019, vol.1, pp.117-123

XXIV. **GÜÇ SİSTEMİNDE İKİ AŞAMALI GÜRBÜZ BİR YÖNTEM İLE DURUM KESTİRİMİ**

Andiç C., Öztürk A., Tosun S.
IV. ULUSLARARASI BİLİMSEL VE MESLEKİ ÇALIŞMALAR KONGRESİ – MÜHENDİSLİK (BILMES EN 2019 - ANKARA), Ankara, Turkey, 7 - 09 November 2019, vol.1, pp.91-97

XXV. **ECONOMIC DISPATCH ANALYSIS WITH OPTIMUM POWER FLOW IN POWER SYSTEMS**
Andiç C., Öztürk A., Tosun S.
International Marmara Sciences Congress (Autumn 2019), Kocaeli, Turkey, 1 - 03 November 2019, vol.1, pp.2

XXVI. **DETERMINATION OF POWER SYSTEMS IN DIFFERENT METHODS CONNECTION WITH PHASE MEASUREMENT UNIT OPTIMAL PLACE**
Bozali B., Öztürk A., Andiç C.
International Marmara Sciences Congress (Autumn 2019), Kocaeli, Turkey, 1 - 03 November 2019, vol.1, pp.487-496

XXVII. **INVESTIGATION OF THE EFFECTS OF PHASE TRANSFER TRANSFORMERS ON THE POWER SYSTEM OPTIMAL WORKING CONDITIONS**
Bozali B., Öztürk A., Andiç C.
Uluslararası Marmara Fen ve Sosyal Bilimler Kongresi (BAHAR 2019), Kocaeli, Turkey, 26 - 28 April 2019, vol.1, pp.834-841

XXVIII. **GÜÇ SİSTEMİNİN GERİLİM KARARLILIK İNDİSLERİ İLE ANALİZİ**
Andiç C., Öztürk A., Tosun S., Bozali B.
Uluslararası Marmara Fen ve Sosyal Bilimler Kongresi (BAHAR 2019), Kocaeli, Turkey, 26 - 28 April 2019, vol.1, pp.253-260

XXIX. **GÜÇ SİSTEMİNDEKİ HARMONİKLERİN SVC İLE İNCELENMESİ**
Andiç C., Döşoğlu M. K.
Uluslararası Marmara Fen ve Sosyal Bilimler Kongresi (Bahar) 2019, Kocaeli, Turkey, 26 - 28 April 2019, vol.1, pp.184-191

XXX. **GÜÇ SİSTEMLERİNDE FAZÖR ÖLÇÜM BİRİMİNİN OPTİMAL BAĞLANTI NOKTALARININ N-1 GÜVENLİK KOŞULLARI ALTINDA BELİRLENMESİ**
Bozali B., Öztürk A., Andiç C.
Uluslararası Marmara Fen ve Sosyal Bilimler Kongresi (BAHAR 2019), Kocaeli, Turkey, 26 - 28 April 2019, vol.1, pp.819-827

XXXI. **GÜÇ SİSTEMİNİN GEÇİCİ KARARLILIK ANALİZİ İÇİN SALINIM DENKLEMİNİN RUNGE-KUTTA YÖNTEMİ İLE ÇÖZÜLMESİ**
Andiç C., Öztürk A., Tosun S., Bozali B.
Uluslararası Marmara Fen ve Sosyal Bilimler Kongresi (BAHAR 2019), Kocaeli, Turkey, 26 - 28 April 2019, vol.1, pp.283-290

XXXII. **Güç Sisteminin Gerilim Çökme Tahmin İndeksi ile Analizi**
Andiç C., Öztürk A., Tosun S.
International Marmara Science and Social Sciences Congress, Kocaeli, Turkey, 23 - 25 November 2018, vol.1, pp.1273-1278

XXXIII. **Türkiye 380 kV Enerji İletim Hatlarına Optimal PMU Bağlantı Noktalarının Bulunması**
Andiç C., Öztürk A., Tosun S.
International Marmara Science and Social Sciences Congress, Kocaeli, Turkey, 23 - 25 November 2018, vol.1, pp.987-991

Scientific Refereeing

International Journal of Electrical and Computer Engineering Systems, Journal Indexed in SCI-E, May 2023
Adıyaman Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, April 2023
INDONESIAN JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, Journal Indexed in SCI-E, March 2023
3rd Conference on Innovation in Energy Management and Renewable Resources , Conference Paper (Full Text), January 2023

Güç Sistemleri Konferansı III, Conference Paper (Full Text), September 2022
Turkish Journal of Electrical Power and Energy Systems, National Scientific Refreed Journal, September 2022
IEEE Global Energy Conference 2022 , Conference Paper (Full Text), September 2022
Turkish Journal of Electrical Power and Energy Systems, National Scientific Refreed Journal, March 2022
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, National Scientific Refreed Journal, March 2022
Turkish Journal of Electrical Power and Energy Systems, National Scientific Refreed Journal, February 2022

Scientific Consultations

İTÜNOVA Teknoloji A.Ş., Project Consultancy, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, Turkey, 2021 - 2022

Metrics

Publication: 46
Citation (Scopus): 23
H-Index (Scopus): 3

Congress and Symposium Activities

1th International Congress of New Horizons in Sciences, Session Moderator, İstanbul, Turkey, 2022
Güç Sistemleri Konferansı III, Working Group, Ankara, Turkey, 2022
International Marmara Sciences Congress (IMASCON 2021, Autumn), Session Moderator, Kocaeli, Turkey, 2021

Scholarships

YÖK 100/2000, YOK, 2018 - 2020

Awards

Andiç C., Design of Optimal PID/FOPID Controller for AVR System Using a Novel Sea Horse Optimizer, Institute Of Engineering & Management, Kolkata, February 2023