

## Asst. Prof. ÖZAY CAN

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Duzce University, Institute Of Science, Elektrik-Elektronik Mühendisliği, Turkey 2020 - 2022

Undergraduate, Duzce University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2017 - 2018

Postgraduate, Duzce University, Institute Of Science, Elektrik-Elektronik Mühendisliği, Turkey 2013 - 2016

Undergraduate, Firat University, Faculty Of Technical Education, Department Of Electric Education, Turkey 2007 - 2011

### Dissertations

Doctorate, Yenilenebilir enerji kaynakları içeren güç sistemleri için sezgisel algoritma tabanlı yük frekans denetleyici tasarımı, Duzce University, Institute Of Science, Elektrik-Elektronik Mühendisliği, 2022

Postgraduate, Yenilenebilir mikrogrid sistemin meta-sezgisel bir yöntem ile optimal güç planlaması, Duzce University, Institute Of Science, Elektrik-Elektronik Mühendisliği, 2016

### Research Areas

Electrical and Electronics Engineering

### Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, Teknik Bilimler Meslek Yüksekokulu, Elektronik ve Otomasyon Bölümü, 2023 - Continues

Lecturer, Recep Tayyip Erdogan University, Teknik Bilimler Meslek Yüksekokulu, Elektronik ve Otomasyon Bölümü, 2021 - Continues

Lecturer, Samsun University, Kavak Vocational School, Department Of Electricity And Energy, 2019 - 2021

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

- I. Automatic Generation Control of a Hybrid PV-Reheat Thermal Power System Using RIME Algorithm**  
Ekinci S., CAN Ö., AYAS M. Ş., İzci D., Salman M., Rashdan M.  
IEEE Access, vol.12, pp.26919-26930, 2024 (SCI-Expanded)
- II. Gorilla troops optimization-based load frequency control in PV-thermal power system**

Can Ö., Ayas M. Ş.

NEURAL COMPUTING AND APPLICATIONS, pp.1-15, 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., İzci D.

ELECTRICAL ENGINEERING, vol.1, no.1, pp.1-13, 2023 (SCI-Expanded)

IV. **Automatic generation controller based on whale optimization algorithm in PV-thermal power systems (FV-termal güç sistemlerinde balina optimizasyon algoritması tabanlı otomatik üretim kontrolörü)**

Can Ö., Eroğlu H., Öztürk A.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.38, no.2, pp.915-926, 2023 (SCI-Expanded)

V. **A Novel Grey Wolf Optimizer Based Load Frequency Controller for Renewable Energy Sources Integrated Thermal Power Systems**

CAN Ö., Ozturk A., EROĞLU H., Kotb H.

ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.49, no.15, pp.1248-1259, 2022 (SCI-Expanded)

## Articles Published in Other Journals

I. **Achieving improved stability for automatic voltage regulation with fractional-order PID plus double-derivative controller and mountain gazelle optimizer**

İzci D., Abualigah L., CAN Ö., Andiç C., Ekinci S.

International Journal of Dynamics and Control, 2024 (Scopus)

II. **Controller design for automatic voltage regulator system using modified opposition-based weighted mean of vectors algorithm**

Ekinci S., Can Ö., İzci D.

INTERNATIONAL JOURNAL OF MODELLING AND SIMULATION, vol.1, no.1, pp.1-18, 2023 (ESCI)

III. **The Controller Design Tuned by Numerous Optimization Techniques for Automatic Voltage Regulator System**

Can Ö.

Karadeniz Fen Bilimleri Dergisi, vol.13, no.3, pp.858-870, 2023 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **Meta-Heuristics Based Automatic Generation Controller In Interconnected Power Systems With Renewable Energy Sources**

Can Ö., Eroğlu H., Öztürk A.

in: Comprehensive Metaheuristics, Seyedali Mirjalili, Amir Gandomi, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.293-311, 2023

## Refereed Congress / Symposium Publications in Proceedings

I. **OGR Sistemi için RIME Algoritması Ayarlı Denetleyici Tasarımı**

Can Ö., Ayas M. Ş.

2023 Innovations in Intelligent Systems and Applications Conference (ASYU), Sivas, Turkey, 11 - 13 October 2023, pp.1-4

II. **Honey Badger Algorithm for Adjustment of FOPID Controller Adopted in An Automatic Voltage Regulator System**

Can Ö., Ekinci S., İzci D.

IEEE Global Energy Conference 2022, Batman, Turkey, 26 - 29 October 2022, pp.262-265

**III. Design of Automatic Generation Controller Using Grey Wolf Optimization in Non-Reheat Power System**

Can Ö., Öztürk A.

International Marmara Sciences Congress (Autumn 2021), Kocaeli, Turkey, 11 December 2021

**IV. Optimal load management in a low power off-grid wind-photovoltaic microhybrid system**

Tutkun N., Can Ö.

16th International Conference on Environment and Electrical Engineering (EEEIC), Florence, Italy, 7 - 10 June 2016

## **Metrics**

Publication: 13

Citation (Scopus): 5

H-Index (Scopus): 1