Res. Asst. ÖMER AYDIN

Personal Information

Email: omer.aydin89@gazi.edu.tr
Web: https://avesis.gazi.edu.tr/%C3%B6mer.aydin89

International Researcher IDs
ORCID: 0000-0002-8932-0996
Yoksis Researcher ID: 214325

Education Information

Doctorate, Gazi University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2017 - Continues
Postgraduate, Gazi University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2015 - 2017
Undergraduate, Kirikkale University, Faculty Of Engıneerıng, Department Of Electrıcal And Electronıcs Engıneerıng, Turkey 2010 - 2014

Dissertations

Postgraduate, Optimal Güç Akışı Probleminin Girdap Arama Algoritması Kullanarak Çözümü, Gazi University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2017

Academic Titles / Tasks

Research Assistant, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2015 - Continues
Research Assistant, Erzincan Binali Yildirim University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Impact of virtual inertia and damping control on stability delay margins of load frequency control systems with renewable energy sources**
Hasen S. A., AYDIN Ö., AYASUN S., Sönmez Ş.
ELECTRICAL ENGINEERING, vol.106, no.1, pp.323-341, 2024 (SCI-Expanded)

II. **Stability delay margin computation of multi-area load frequency control system with electric vehicle using critical eigenvalue tracing method**
AYDIN Ö., Sönmez Ş., AYASUN S.
Transactions of the Institute of Measurement and Control, vol.45, no.5, pp.874-885, 2023 (SCI-Expanded)

III. **The Effect of Virtual Inertia and Damping Control on the Stability Region of Load Frequency Control Systems with Time Delays**
Hasen S., AYDIN Ö., AYASUN S., Sönmez Ş.
Electric Power Components and Systems, vol.51, no.5, pp.438-451, 2023 (SCI-Expanded)

IV. **Determination of stability delay margins for multi-area load frequency control systems with incommensurate time delays through eigenvalue tracing method**
AYDIN Ö., SÖNMEZ Ş., AYASUN S.

INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.137, 2022 (SCI-Expanded)

V. **Power system harmonic and interharmonic estimation using Vortex Search Algorithm**
ALTINTAŞI Ç., AYDIN Ö., TAPLAMACIOĞLU M. C., SALOR DURNA Ö.
ELECTRIC POWER SYSTEMS RESEARCH, vol.182, 2020 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **Design of an Optimal PI Controller for Time-Delayed Two-Area LFC-VID System**
Hasen S. A., AYDIN Ö., AYASUN S.
5th IEEE Global Power, Energy and Communication Conference, GPECOM 2023, Cappadocia, Turkey, 14 - 16 June 2023, pp.288-293

II. **Robust Stability Region for Time-Delayed Single-Area LFC-EV System**
AYDIN Ö., Hasen S. A., AYASUN S.
5th IEEE Global Power, Energy and Communication Conference, GPECOM 2023, Cappadocia, Turkey, 14 - 16 June 2023, pp.317-322

III. **Delay Margin Computation of Generator Excitation Control System with Incommensurate Time Delays Using Critical Eigenvalue Tracing Method**
AYDIN Ö., Sonmez S., AYASUN S.
4th IEEE Global Power, Energy and Communication Conference, GPECOM 2022, Cappadocia, Turkey, 14 - 17 June 2022, pp.244-249

IV. **Comparative Parameter Estimation of Single Diode PV-Cell Model by Using Sine-Cosine Algorithm and Whale Optimization Algorithm**
AYDIN Ö., Gozde H., DURSUN M., TAPLAMACIOĞLU M. C.
6th International Conference on Electrical and Electronics Engineering (ICEEE), İstanbul, Turkey, 16 - 17 April 2019, pp.65-68

V. **Solution of Wind Integrated Optimal Power Flow Using Vortex Search Algorithm**
Aydın Ö., Tezcan S. S., Eke İ., Taplamacıoğlu M. C.
The 13th International Conference of ICTPE-2017, Van, Turkey, 21 - 23 September 2017, pp.1-5

VI. **Solving the Optimal Power Flow Quadratic Cost Functions using Vortex Search Algorithm**
Aydin Ö., Tezcan S. S., Eke I., Taplamacioglu M. C.
20th World Congress of the International-Federation-of-Automatic-Control (IFAC), Toulouse, France, 9 - 14 July 2017, vol.50, pp.239-244

VII. **Optimal Power Flow Using Vortex Search Algorithm**
AYDIN Ö., TEZCAN S. S., EKE İ., TAPLAMACIOĞLU M. C.
International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, vol.1, pp.3254-3260

Metrics

Publication: 13
Citation (WoS): 35
Citation (Scopus): 41
H-Index (WoS): 4
H-Index (Scopus): 4