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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 Engineering, Department Of Electrical And Electronics Engineering, 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 Yıldırım 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.

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

Aydm Ö., Tezcan S. S., Eke İ., Taplamacioğlu 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

Aydm Ö., Tezcan S. S., Eke İ., 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

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