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Education

Doctorate, İstanbul University-Cerrahpaşa, Institute Of Graduate Education, Turkey 2018 - 2024
Postgraduate, Istanbul Bilgi University, Turkey 2015 - 2018
Undergraduate, Isik University, Turkey 2010 - 2015

Dissertations

Doctorate, HİBRİT ARAÇLAR İÇİN YAPAY ZEKA TABANLI BİR KONTROL STRATEJİSİ, İstanbul University-Cerrahpaşa, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2024
Postgraduate, Design of robust guaranteed cost observer-based controller for linear uncertain systems, Istanbul Bilgi University, 2018

Articles

I. **Machine Learning-Guided Metaheuristic Optimization for PID Design in Load Frequency Control of a Two-Area PV-Thermal Power System**
ARIKUŞU Y. S., Lazaroiu A. C.
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II. **Artificial Neural Network-Based PID Parameter Estimation Using Black Kite Algorithm Hyperparameter Optimization for DC Motor Speed Control**
ARIKUŞU Y. S.
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III. **A comprehensive survey of distributed optimization methods and technological enablers for sustainable energy communities**
BAŞARAN K., Siano P., Abdelkader M., CANDAN A. K., Kivi M. M., Sakib N., Arikusu Y. S., Lazaroiu G. C.
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V. **Design of a Novel PID Controller Based on Machine Learning Algorithm for a Micro-Thermoelectric**

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IX. **Comparison of conventional and modern controllers for a gas turbine power plant**
ARIKUŞU Y. S., BAYHAN N., Tiryaki H.
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Books

I. **DETERMINATION OF HYPER PARAMETERS OF RANDOM FOREST ALGORITHM BY BAYESIAN OPTIMIZATION USING FISHER IRIS DATASET**
Arıkuşu Y. S., Taş G.
in: ADVANCED ENGINEERING METHODS IN ENERGY SYSTEMS, MOTOR CONTROL AND MACHINE LEARNING, Prof. Dr. Gülşah ÇAKMAK, Editor, UBAK, Ankara, pp.55-72, 2025

II. **BRUSHLESS DIRECT CURRENT MOTOR CONTROL METHODS**
Arıkuşu Y. S.
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Papers Presented at Peer-Reviewed Scientific Conferences

I. **Otomatik Gerilim Regülatörü için Koronavirüs Sürü Bağışıklığı Optimizasyonu Tabanlı PID Kontrolör Tasarımı**
ARIKUŞU Y. S., BAYHAN N.
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II. **Yeni Avrupa Sürüş Çevriminde Elektikli Araçlar için Gri Kurt Optimizasyon Tabanlı Hız Kontrolör Tasarımı**
ARIKUŞU Y. S., BAYHAN N.
6thEngineers of Future InternationalStudent Symposium(EFIS2022), 1 - 02 July 2022, (Full Text)

III. **Termoelektrik Jeneratör İçin DC-DC Dönüştürücü Tasarımı**
ARIKUŞU Y. S., BAYHAN N., TİRYAKİ H.
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IV. **Bir Gaz Türbininin Parçacık Sürüsü, Karınca Kolonisi ve Yapay Arı Kolonisi Optimizasyon Yöntemleri ile Kontrolü**

ARIKUŞU Y. S., BAYHAN N., TİRYAKİ H.
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V. **Design of a robust guaranteed cost observer-based controller for linear uncertain systems**
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2018 6th International Conference on Control Engineering & Information Technology (CEIT), 25 - 27 October 2018, (Full Text)

Funded Projects

BAŞARAN K., GÖREL G., YILMAZ B. M., YABANOVA İ., ARIKUŞU Y. S., Project Supported by Higher Education Institutions, BAP Infrastructure, Akıllı Şebeke Sistemlerinde Yenilenebilir Enerji Entegrasyonu, Gerçek Zamanlı Kontrol ve İletişim Teknolojilerinin Geliştirilmesi, 2025 - 2026

Metrics

Publication: 17
Citation (WoS): 40
Citation (Scopus): 35
H-Index (WoS): 4
H-Index (Scopus): 3