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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAJ-7522-2021

ScopusID: 57188814771

Yoksis Researcher ID: 55710

Education Information

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik, Turkey 2016 - 2022

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kontrol Ve Otomasyon Mühendisliđi, Turkey 2017 - 2017

Postgraduate, Karadeniz Technical University, -, Elektrik-Elektronik Mühendisliđi, Turkey 2012 - 2016

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliđi, Turkey 2007 - 2012

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, LEARNING-BASED ADAPTIVE MOTION CONTROL OF A SNAKE ROBOT, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik, 2022

Postgraduate, DAĐITIM ŐEBEKELERİNDE GÜÇ KALİTESİ İÇİN OPTİMUM KAPASİTÖR YERİNİN VE DEĐERİNİN BELİRLENMESİ , Karadeniz Technical University, -, Elektrik-Elektronik Mühendisliđi, 2016

Research Areas

Controllers, Optimal Control, Robotics and Mechatronics Systems, Mechatronic Systems, Route and Motion Planning, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik, 2023 - Continues

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik, 2012 - 2023

Academic and Administrative Experience

Visiting researcher, Aalborg Universitet (Aalborg University), Department Of Electronic Systems, The Technical Faculty Of It And Design, Automation & Control, 2019 - 2019

Courses

Akıllı Kontrol Sistemleri, Undergraduate, 2022 - 2023

Bitirme Projesi, Undergraduate, 2022 - 2023

Bulanık Mantık, Undergraduate, 2022 - 2023

Mühendislik Tasarımı, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Fast Non-dominated Sorting Multi-objective Symbiotic Organism Search Algorithm for Energy Efficient Locomotion of Snake Robot**
Baysal Y., Altas I.
COMPUTER SCIENCE AND INFORMATION SYSTEMS, vol.19, no.1, pp.353-378, 2022 (SCI-Expanded)
- II. **Multi-objective symbiotic organism search algorithm for optimal feature selection in brain computer interfaces**
BAYSAL Y. A., Ketenci S., ALTAŞ İ. H., KAYIKÇIOĞLU T.
EXPERT SYSTEMS WITH APPLICATIONS, vol.165, 2021 (SCI-Expanded)
- III. **Modelling and Simulation of a Wheel-Less Snake Robot**
BAYSAL Y. A., ALTAŞ İ. H.
2020 7TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING (ICEEE 2020), pp.285-289, 2020 (SCI-Expanded)

Articles Published in Other Journals

- I. **POWER QUALITY IMPROVEMENT VIA OPTIMAL CAPACITOR PLACEMENT IN ELECTRICAL DISTRIBUTION SYSTEMS USING SYMBIOTIC ORGANISMS SEARCH ALGORITHM**
BAYSAL Y. A., ALTAŞ İ. H.
Mugla Journal of Science and Technology, vol.3, no.1, pp.64-68, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Optimally Efficient Locomotion of Snake Robot**
Baysal Y. A., Altaş İ. H.
2020 International Conference on INnovations in Intelligent SysTems and Applications (INISTA), Novi-Sad, Serbia And Montenegro, 24 - 26 August 2020, pp.1-6
- II. **Optimal PV Generation Using Symbiotic Organisms Search Optimization Algorithm-Based MPPT**
AKPOLAT A. N., BAYSAL Y. A., Yang Y., Blaabjerg F.
46th Annual Conference of the IEEE-Industrial-Electronics-Society (IECON), ELECTR NETWORK, 19 - 21 October 2020, pp.2850-2855
- III. **Adaptive Snake Robot Locomotion in Different Environments**
BAYSAL Y. A., ALTAŞ İ. H.
4th International Conference on Control, Automation and Diagnosis (ICCAD), Paris, France, 7 - 09 October 2020, pp.218-223
- IV. **Simbiyotik Organizmalar Arama Algoritması İle Dağıtım Şebekelerinde Güç Kayıplarının Azaltılması**

Baysal Y. A., Altaş İ. H., Gedikli E.

Akıllı Sistemlerde Yenilikler ve Uygulamaları (ASYU) Sempozyumu, Düzce, Turkey, 29 September - 01 October 2016

V. **Cuckoo Search Algorithm for Power Loss Minimization by Optimal Capacitor Allocation in Radial Power Systems**

BAYSAL Y. A., ALTAŞ İ. H.

International Symposium on Innovations in Intelligent Systems and Applications (INISTA), Sinaia, Romania, 2 - 05 August 2016

VI. **A Fuzzy Reasoning Approach for Optimal Location and Sizing of Shunt Capacitors in Radial Power Systems**

BAYSAL Y. A., ALTAŞ İ. H.

IEEE Energy Conversion Congress and Exposition (ECCE), Montreal, Canada, 18 - 24 September 2015, pp.5838-5842

Supported Projects

Altaş İ. H., Ayas M. Ş., Baysal Y. A., Danayiyen Y., Özgenç B., TUBITAK Project, Grid/Load Integration of Photovoltaic Systems with shadow effect for Energy Continuity, 2023 - 2026

Baysal Y. A., Kılıç G. Y., Kurt M., Bayat M. S., TUBITAK Project, Enerji Verimli Adaptif Hareket Edebilen Yılan Robot, 2023 - 2024

Metrics

Publication: 10

Citation (WoS): 11

Citation (Scopus): 16

H-Index (WoS): 2

H-Index (Scopus): 3

Scholarships

2211-C Öncelikli Alanlara Yönelik Doktora Burs Programı, TUBITAK, 2018 - Continues

Awards

BAYSAL Y. A., 2224-A - Yurt Dışı Bilimsel Etkinliklere Katılma Desteği, TÜBİTAK-BİDEB, August 2016