

Asst. Prof. Bilal EROL

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAQ-9118-2020

ScopusID: 56938236300

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Education Information

Doctorate, Yildiz Technical University, Faculty Of Electrical & Electronics, Control And Automation Engineering, Turkey
2015 - 2020

Postgraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering,
Turkey 2012 - 2015

Undergraduate, Dokuz Eylül, Mühendislik, Elektrik Elektronik Mühendisliği, Turkey 2007 - 2012

Dissertations

Doctorate, Uyarlamalı Optik Sistemler için Sabit Dereceli H Sonsuz Alt Optimal Kontrolcü Geliştirilmesi, Yildiz Technical
University, Faculty Of Electrical & Electronics, Control And Automation Engineering, 2020

Postgraduate, Çeyrek Taşıt Aktif Süspansiyon Modeli Çıkarımı ve Kontrolü, Yildiz Technical University, Faculty of
Electrical & Electronics, Electronics And Communication Engineering, 2015

Research Areas

Electrical and Electronics Engineering, Mathematics, Optimization, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Applied Sciences, Aviation Electronics, 2020 - Continues

Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Control And Automation Engineering,
2013 - 2020

Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Faculty Of Applied Sciences, Aviation Electronics, 2020 -
Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Identification of Adaptive Optics System Model with Extended Data Set**
Erol B., Altner B., Delibaşı A.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.0, no.0, 2023 (SCI-Expanded)
- II. **Optimal actuator placement in adaptive optics systems**
Altner İ. B., Erol B., Delibaşı A.
Journal Of Vibration And Control, vol.01, no.0, pp.1, 2021 (SCI-Expanded)
- III. **Two-degree-of-freedom compensator design for disturbance attenuation problem via higher order sinusoidal input describing functions theory**
Erol B., Öz M. A. N., Uçun L.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.43, no.5, pp.1009-1018, 2021 (SCI-Expanded)
- IV. **H_{∞} Controller Design for the Mitigation of Atmospheric Effects on the Laser Beam Pointing**
Subaşı Ö., Erol B., Altner B., Turan H., Bacı N.
Transactions Of The Institute Of Measurement And Control, vol.0, no.0, 2020 (SCI-Expanded)
- V. **Design of gain-scheduling PID controllers for Z-source inverter using iterative reduction-based heuristic algorithms**
YILMAZ A. R., EROL B., DELİBAŞI A., ERKMEN B.
SIMULATION MODELLING PRACTICE AND THEORY, vol.94, pp.162-176, 2019 (SCI-Expanded)
- VI. **H-infinity Suboptimal controller design for adaptive optic systems**
EROL B., Altner B., Adalı E., DELİBAŞI A.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.41, no.8, pp.2100-2113, 2019 (SCI-Expanded)
- VII. **Fixed-order Script capital H-infinity controller design for MIMO systems via polynomial approach**
Erol B., Delibasi A.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.41, no.7, pp.1985-1992, 2019 (SCI-Expanded)
- VIII. **Modeling and control of flexible link manipulators for unmodeled dynamics effect**
Altner B., Delibaşı A., Erol B.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, vol.233, pp.245-263, 2019 (SCI-Expanded)
- IX. **Proportional-integral-derivative type H controller for quarter car active suspension system**
EROL B., DELİBAŞI A.
JOURNAL OF VIBRATION AND CONTROL, vol.24, no.10, pp.1951-1966, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Comparative Study of Model Reduction Techniques for Specified Bandwidth on Aircraft**
Yılmaz O., Erol B.
El-Cezeri Journal of Science and Engineering, vol.7, no.2, pp.882-894, 2020 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **LQI Controller Design for Quadrotor UAV under Different Wind Perturbation**
Canseven M. F., Demir D. G., Erol B.
OTOMATİK KONTROL TÜRK MİLLİ KOMİTESİ ULUSAL TOPLANTISI (TOK2023), İstanbul, Turkey, 14 - 16 September 2023
- II. **QUANTUM COMPUTING AND SIMULATION OF MATERIALS**
Oduncuoğlu M., Erol B.

The 5th International Conference of Materials and Engineering Technology (TICMET'23), İstanbul, Turkey, 13 - 16 November 2022

- III. **Energy Harvesting Analysis and Control of Regenerative Quarter Car Active Suspension System**
Erol B.
ICASEM 4th INTERNATIONAL CONGRESS ON APPLIED SCIENCES, ENGINEERING AND MATHEMATIC CONGRESS, Tekirdağ, Turkey, 22 - 23 October 2022
- IV. **Controller Design for the Mitigation of Atmospheric Effects on the Laser Beam Pointing**
Subaşı Ö., Turan H., Bacı N., Erol B., Delibaşı A.
OTOMATİK KONTROL TÜRK MİLLÎ KOMİTESİ ULUSAL TOPLANTISI, Muğla, Turkey, 11 - 14 September 2019, pp.121-126
- V. **HOSIDF-based Chebyshev Structured Compensator Design for Disturbance Attenuation Problem**
ÖZ M. A. N., EROL B., UCUN L.
6th International Conference on Control Engineering & Information Technology, İstanbul, Turkey, 25 October 2018, pp.189-194
- VI. **Uyarlamalı Optik Sistemler için H_sonsuz alt-Optimal Kontrolcü Geliştirilmesi**
Adalı E., EROL B., DELİBAŞI A., Altner B.
Otomatik Kontrol Türk Milli Komitesi (TOK), İstanbul, Turkey, 21 September 2017, pp.183-188
- VII. **Mobil Robotlarda Engelden Kaçınma Algoritmaları ve Optimal Rota Planlaması**
Zoroglu C., Avşar E., Oynak F., EROL B., DELİBAŞI A.
Otomatik Kontrol Türk Milli Komitesi (TOK), İstanbul, Turkey, 21 September 2017, pp.410-415
- VIII. **Model İndirgeme Yöntemlerinin Sonsuz Boyutlu Sistemlere Uygulanması ve Karşılaştırılması**
Yılmaz O., Mungan M. A., DELİBAŞI A., EROL B.
Otomatik Kontrol Türk Milli Komitesi (TOK), İstanbul, Turkey, 21 September 2017, pp.311-316
- IX. **Esnek Cubuk Manipulasyonlarının Modellenmesi ve Kontrolü**
DELİBAŞI A., Erol B.
Otomatik Kontrol Türk Milli Komitesi (TOK), 01 September 2016
- X. **Fixed order Hinf controller for quarter car active suspension system**
EROL B., DELİBAŞI A.
2015 23rd Mediterranean Conference on Control and Automation (MED), Torremolinos, Malaga, Spain, Spain, 16 - 19 June 2015
- XI. **Aktif Süspansiyon Sistemi Modelinin Çıkarımı**
Erol B.
Otomatik Kontrol Türk Milli Komitesi (TOK), 01 September 2014

Supported Projects

Erol B., Kurt M., TUBITAK Project, Uyarlamalı Optik Sistemler için Sabit Dereceli H_Sonsuz Alt-Optimal Kontrolcü Geliştirilmesi, 2018 - 2021

Delibaşı A., TUBITAK Project, Sabit Dereceli H_Sonsuz Kontrolcü Tasarımındaki Tutuculuğun Azaltılması, 2015 - 2017

Tasks In Event Organizations

Kaya Ayana E., EROL B., 6th International Conference on Control Engineering & Information Technology, Scientific Congress, İstanbul, Turkey, Ekim 2018

Kaya Ayana E., EROL B., OTOMATİK KONTROL TÜRK MİLLÎ KOMİTESİ ULUSAL TOPLANTISI (TOK 2017), Scientific Congress, İstanbul, Turkey, Eylül 2017

Metrics

Publication: 21

Citation (WoS): 38

Citation (Scopus): 67

H-Index (WoS): 3

H-Index (Scopus): 4