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Personal Information

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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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Optimal actuator placement in adaptive optics systems**
Altınar İ. B. , Erol B., Delibaşı A.
Journal Of Vibration And Control, vol.01, no.0, pp.1, 2021 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)

- III. **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 (Journal Indexed in SCI Expanded)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)

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 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Identification of Adaptive Optics Systems Model**
Erol B., Altner İ. B. , Delibaşı A.
TOK 2021, Van, Turkey, 2 - 04 September 2021, vol.1, no.1, pp.1-2
- II. **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 MİLLİ KOMİTESİ ULUSAL TOPLANTISI, Muğla, Turkey, 11 - 14 September 2019, pp.121-126
- III. **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
- IV. **Uyarlamalı Optik Sistemler için H_s 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

- V. **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
- VI. **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
- VII. **Esnek Cubuk Manipulasyonlarının Modellenmesi ve Kontrolü**
DELİBAŞI A., Erol B.
Otomatik Kontrol Türk Milli Komitesi (TOK), 01 September 2016
- VIII. **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
- IX. **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

Citations

Total Citations (WOS):25

h-index (WOS):3