

Asst. Prof. Kaan CAN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAF-2794-2019

Yoksis Researcher ID: 229215



Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği
Anabilim Dalı, Turkey 2017 - 2023

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği,
Turkey 2015 - 2017

Undergraduate, Nigde Omer Halisdemir University, Faculty Of Engineering, Elektrik-
Elektronik Mühendisliği, Turkey 2009 - 2014

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, İnsansız hava araçlarının formasyon kontrolü için yeni bir adaptif gürbüz kontrolcü tasarımı, Ataturk
University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği Anabilim Dalı, 2023

Postgraduate, Dört rotorlu bir insansız hava aracının kayan kipli kontrolcü ile yörünge takibinin gerçekleştirilmesi,
Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği/ Kontrol Ve Kumanda Sistemleri , 2017

Research Areas

Electrical and Electronics Engineering, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2024 - Continues

Research Assistant, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2015 - 2024

Academic and Administrative Experience

Adaptation/Exemption Committee Member, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2016 - Continues
Internship Committee Member, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2016 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Robust Consensus-based Formation Control of a Group of UAV**
Can K., Başçi A.
ELEKTRONIKA IR ELEKTROTEKNIKA, vol.29, no.4, pp.4-10, 2023 (SCI-Expanded)
- II. **A Fractional-Order Sliding Mode Controller Design for Trajectory Tracking Control of an Unmanned Aerial Vehicle**
Can K., Orman K., Başçi A., Derdiyok A.
ELEKTRONIKA IR ELEKTROTEKNIKA, vol.26, pp.4-10, 2020 (SCI-Expanded)
- III. **Model-based dynamic fractional-order sliding mode controller design for performance analysis and control of a coupled tank liquid-level system**
Sekban H. T., Can K., Başçi A.
Advances in Electrical and Computer Engineering, vol.20, pp.93-100, 2020 (SCI-Expanded)
- IV. **An adaptive-fuzzy fractional-order sliding mode controller design for an unmanned vehicle**
ORMAN K., CAN K., BAŞÇI A., DERDİYOK A.
Elektronika ir Elektrotehnika, vol.24, no.2, pp.12-17, 2018 (SCI-Expanded)
- V. **Trajectory Tracking Control of a Four Rotor Unmanned Aerial Vehicle Based on Continuous Sliding Mode Controller**
BAŞÇI A., CAN K., ORMAN K., DERDİYOK A.
ELEKTRONIKA IR ELEKTROTEKNIKA, vol.23, no.3, pp.12-19, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Bir Grup İnsansız Hava Aracının Zamanla Değişen Yörünge Boyunca Konsensus Tabanlı Sürü Kontrolü**
Can K., Başçi A.
Fırat Üniversitesi Uzay ve Savunma Teknolojileri Dergisi, vol.1, no.1, pp.441-448, 2022 (Peer-Reviewed Journal)
- II. **PI+Feed Forward Controller Tuning Based on Genetic Algorithm for Liquid Level Control of Coupled-Tank System**
Yılmaz M., Can K., Başçi A.
Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.11, no.2, pp.1014-1026, 2021 (Peer-Reviewed Journal)
- III. **Design, Simulation and Comparison of Controllers for Temperature Profile Tracking Control of a Heat Flow System**
Can K., Sekban H. T., Orman K., Başçi A.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.2, pp.828-838, 2020 (Peer-Reviewed Journal)
- IV. **Position Control of a Ball Beam Experimental Setup Based on Sliding Mode Controller**
CAN K., BAŞÇI A.
International Journal of Applied Mathematics, Electronics and Computers, vol.1, pp.29-35, 2017 (Peer-Reviewed Journal)
- V. **Real-Time Application of Sliding Mode Controller for Coupled Tank Liquid Level System**
SEKBAN H. T., CAN K., BAŞÇI A.
International Journal of Applied Mathematics, Electronics and Computers (IJAMEC), vol.1, pp.301-306, 2016 (Peer-Reviewed Journal)
- VI. **Dört Rotorlu bir İHA'nın Geri Adımlamalı Kontrolcü ile Gerçek Zamanlı Yörünge Kontrolü**
Can K., Başçi A.

Refereed Congress / Symposium Publications in Proceedings

- I. **Bir grup İnsansız Hava Aracının Zamanla Değişen Yörünge Boyunca Konsensus Tabanlı Sürü kontrolü**
Başçi A., Can K.
Tok 2022, Elazığ, Turkey, 12 - 15 September 2022, pp.1-5
- II. **Swarm Control of a Group of Unmanned Aerial Vehicle Under Fixed Consensus Topology**
Can K., Başçi A.
International Symposium on Aircraft Technology, MRO and Operations ISATECH'22, Belgrade, Serbia, 14 - 16 September 2022, pp.1-8
- III. **Time-Varying Consensus Formation Control of a Group of Quadrotor System with Collision Avoidance**
Can K., Başçi A.
International Symposium on Unmanned Systems and the Defense Industry 2022 (ISUDEF), Madrid, Spain, 30 May - 01 June 2022, pp.1-5
- IV. **Integral Terminal Sliding Mode Controller for Unmanned Ground Vehicle**
Sekban H. T., Can K., Başçi A.
2nd International Symposium on Applied Science and Engineering (ISASE-2021), Erzurum, Turkey, 7 - 09 April 2021, vol.1, no.1, pp.1
- V. **Leader-Follower Formation Control of Quadrotors: A Simple Virtual Leader Approach**
Can K., Başçi A.
2nd International Symposium on Applied Science and Engineering (ISASE-2021), Erzurum, Turkey, 7 - 09 April 2021, vol.12, no.1, pp.1-2
- VI. **An Adaptive Backstepping Controller Design for Trajectory Tracking Control of a Two Link Robot Manipulator**
Can K., Başçi A.
7th International Conference on Advanced Technologies (ICAT'18), Antalya, Turkey, 28 April - 01 May 2018, pp.260-264
- VII. **Computed Torque Control Design for Path Tracking Control of A Two Link Robot Manipulator**
Can K., Başçi A.
7th International Conference on Advanced Technologies (ICAT'18), Antalya, Turkey, 28 April - 01 May 2018, pp.265-268
- VIII. **Temperature Control of A Heat Flow Experimental Setup via Fractional-Order PI Controller**
CAN K., BAŞÇI A.
2nd International Conference on Advanced Engineering Technologies (ICADET 2017), Bayburt, Turkey, 21 - 23 September 2017, vol.19, pp.1119-1124
- IX. **İkili Tank Sıvı-Seviye Sisteminin İki Serbestlik Dereceli PI Kontrolör ile Kontrolü ve Performans Analizi**
Can K., Sekban H. T., Başçi A.
2nd International Conference on Advanced Engineering Technologies (ICADET 2017), Bayburt, Turkey, 21 - 23 September 2017, vol.19
- X. **Position Control of a Ball Beam Experimental Setup Based on Sliding Mode Controller**
CAN K., BAŞÇI A.
International Conference on Advanced Technology Sciences (ICAT'17), 19 - 21 October 2017
- XI. **İkili Tank Sıvı Seviye Sisteminin Kesir Dereceli PI Kontrolcü ile Kontrolü ve Performans Analizi**
SEKBAN H. T., CAN K., BAŞÇI A.
Otomatik Kontrol Ulusal Toplantısı, TOK 2017, İstanbul, Turkey, 21 - 23 September 2017, pp.126-131
- XII. **Comparison of Fractional PI and Classical PI Controller Based Position Control of Ball and Beam**

System

CAN K., BAŞÇI A., SOYSAL B., DERDİYOK A.

5th International Conference on Advanced Technology Sciences (ICAT'17), İstanbul, Turkey, 9 - 12 May 2017, pp.601-606

XIII. **İkili Tank Sıvı-Seviye Sisteminin PI ve Geri Adımlamalı Kontrol Yöntemleri ile Kontrolü ve Performans Analizi**

CAN K., BAŞÇI A., SEKBAN H. T.

National Conference on Electrical, Electronics and Biomedical Engineering (ELECO 2016), Bursa, Turkey, 1 - 03 December 2016, pp.272-277

XIV. **Dört Rotorlu Bir Mikro İnsansız Hava Aracının (İHA) İki Serbestlik Dereceli PI Kontrolcü ile Yörünge Takibinin Gerçekleştirilmesi**

CAN K., ORMAN K., BAŞÇI A., DERDİYOK A.

National Conference on Electrical, Electronics and Biomedical Engineering (ELECO 2016), Bursa, Turkey, 1 - 03 December 2016, pp.682-686

XV. **Real Time Speed Control of BLDC Motor Based On Fractional Sliding Mode Controller**

ORMAN K., CAN K., BAŞÇI A., DERDİYOK A.

International Conference on Advanced Technology Sciences (ICAT'16), Konya, Turkey, 1 - 03 September 2016

XVI. **Dörtlü Tank Sıvı-Seviye Sisteminin Kayan Kipli Kontrolcü ile Kontrolü**

CAN K., BAŞÇI A., SEKBAN H. T.

Otomatik Kontrol Ulusal Toplantısı, TOK'2016, Eskişehir, Turkey, 29 September - 01 October 2016, pp.303-308

XVII. **Dörtlü Tank Sıvı-Seviye Sisteminin Kesir Dereceli PI Kontrolcü ile Kontrolü**

SEKBAN H. T., CAN K., ORMAN K., BAŞÇI A.

Otomatik Kontrol Ulusal Toplantısı, TOK'2016, Turkey, 29 September - 01 October 2016, pp.634-638

Metrics

Publication: 28

Citation (WoS): 29

Citation (Scopus): 32

H-Index (WoS): 4

H-Index (Scopus): 4