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International Researcher IDs

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Education Information

Doctorate, Yıldız Technical University, Faculty Of Electrical & Electronics, Control And Automation Engineering, Turkey 2019 - Continues

Postgraduate, Yıldız Technical University, Faculty Of Electrical & Electronics, Control And Automation Engineering, Turkey 2016 - 2019

Undergraduate, Yıldız Technical University, Faculty Of Electrical & Electronics, Control And Automation Engineering, Turkey 2012 - 2016

Dissertations

Postgraduate, Eyleyici Doyumlu Çift Tank Sıvı Seviye Kontrol Sistemi için Bernstein Polinomları Tabanlı Kompanzator Tasarımı, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kontrol Ve Otomasyon Mühendisliği, 2019

Research Areas

Control and System Engineering, Simulation, Modelling and Identification, Checker, Control Systems and Instrumentation, Optimal Control, System Diagnostics

Academic Titles / Tasks

Research Assistant, Yıldız Technical University, Faculty Of Electrical & Electronics, Control And Automation Engineering, 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- Chebyshev polynomials based compensator design via higher order sinusoidal input describing functions in traction motor drive to improve performance of electric vehicle**
Kaptan D., Tacal Uçun B., Uçun L.

Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2023 (SCI-Expanded)

II. Bernstein polynomials based compensator design for coupled tank system with saturation nonlinearity

Tacal B., Uçun L.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, vol.236, no.7, pp.1274-1284, 2022 (SCI-Expanded)

Articles Published in Other Journals

I. Açık Su Kanal Sistemi için Bernstein Polinomları Tabanlı Kompanzator Tasarımı

Tacal B., Uçun L., Engin Ş. N.

Fırat Üniversitesi Uzay ve Savunma Teknolojileri Dergisi, vol.1, no.1, pp.336-341, 2022 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Bernstein Polynomials-based Compensator Design via Extremum Seeking Control Algorithm

Tacal Uçun B., Engin Ş. N.

OTOMATİK KONTROL ULUSAL TOPLANTISI (TOK2023), İstanbul, Turkey, 14 - 16 September 2023, pp.701-705

II. Linear Model Predictive Speed Controller Design for a Two-Wheel Differential Drive Mobile Robot

Çakır H. S., Tacal Uçun B., Yaşar C. F.

OTOMATİK KONTROL ULUSAL TOPLANTISI (TOK2023), İstanbul, Turkey, 14 - 16 September 2023, pp.360-365

III. Feedforward Compensator Design in Traction Motor Drive for Electric Vehicles via Frequency Based System Identification

Kaptan D., Tacal B., Uçun L.

ASYU2022, Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı, Antalya, Turkey, 7 - 09 September 2022, pp.1-6

IV. Robust Hinf Dynamic Output Feedback Controller Design for Coupled Tank Level Control System with Input Uncertainty

Tacal B., Uçun L.

OTOMATİK KONTROL ULUSAL TOPLANTISI (TOK2019), Muğla, Turkey, 11 - 14 September 2019, pp.80-84

V. Robust H-infinity Controller Design for Active Vibration Suppression with Input Constraints

El Heraiki S., TACAL B., UCUN L.

20th International Carpathian Control Conference (ICCC), Poland, 26 - 29 May 2019, pp.104-109

VI. Eyleyici Doyumlu Çift Tank Seviye Kontrol Sistemi için Chebyshev Polinomları Tabanlı Kompanzator Tasarımı

Tacal B., Kılıç M., Uçun L.

OTOMATİK KONTROL ULUSAL TOPLANTISI (TOK 2018), Kayseri, Turkey, 12 - 14 September 2018, pp.82-87

Supported Projects

UCUN L., YAŞAR C. F., ENGİN G., TACAL B., ETEMADİ A., AYAT AYDOĞAN B., ENGİN Ş. N., Project Supported by Higher Education Institutions, Frekans Tabanlı Sistem Tanıma Yaklaşımı ile Açık Su Kanal Sistemlerinde Verimliliği Arttırmaya Yönelik Su Seviyesi Kontrolü, 2022 - Continues

Yaşar C. F., Uçun L., TUBITAK Project, Design, Modeling and Control of Climbing Robots under External Forces: Applications for Robot Positioning on Vertical Metallic Wall, 2021 - 2024

Metrics

Publication: 9

Citation (Scopus): 1

H-Index (Scopus): 1