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International Researcher IDs

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Education Information

- I. Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 2017 - 2024
- II. Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 2014 - 2017
- III. Undergraduate, Gaziantep University, Faculty Of Engineering, Department Of Mechanical Engineering (English), Turkey 2009 - 2014

Foreign Languages

- I. English, C2 Mastery

Dissertations

- I. Doctorate, Implementation of Adaptive Interaction Torque Control on Modified Wrist/Forearm Rehabilitation Robot (CWRR) Under Internal and External Disturbance Effects, Cukurova University, Mühendislik Fakültesi, Makina Müh., 2024
- II. Postgraduate, DEVELOPMENT OF A CONCEPTUAL MODEL FOR WRIST AND FOREARM REHABILITATION ROBOT WITH TWO DEGREES OF FREEDOM, Cukurova University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Bölümü Abd, 2017

Research Areas

Mechanical Engineering, Machine Theory and Dynamics, Machine Dynamics, System Dynamics and Control, Mechanisms, Engineering and Technology

Academic Titles / Tasks

- I. Research Assistant PhD, Cukurova University, Mühendislik Fakültesi, Makina Müh., 2024 - Continues
- II. Research Assistant, Cukurova University, Mühendislik Fakültesi, Makina Müh., 2014 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A cascade fuzzy adaptive based interaction torque control of a pneumatically actuated forearm rehabilitation robot under disturbance effects**
Dağdelen M., Sarıgeçili M. İ., Özbek N. S.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART C: JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.238, no.10, pp.4679-4701, 2023 (SCI-Expanded)
- II. **Automation of friction torque identification for vane-type semi-rotary pneumatic actuators**
Dagdelen M., Sarıgeçili M.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.45, no.6, pp.1-17, 2023 (SCI-Expanded)
- III. **Friction force estimation in pneumatic cylinders by full automation of experimental procedures**
Dağdelen M., Sarıgeçili M. İ.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.45, no.5, pp.986-997, 2023 (SCI-Expanded)
- IV. **A new compressible flow model for pneumatic directional control valves**
Dağdelen M., Sarıgeçili M. İ., Ozbek N. S.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, vol.237, no.2, pp.179-195, 2023 (SCI-Expanded)

Articles Published in Other Journals

- I. **An Experimental Method for Estimating Combined Friction Torque in Vane Type Pneumatic Semi Rotary Actuators**
Dağdelen M., Sarıgeçili M. İ.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.24, no.6, pp.1272-1283, 2020 (Peer-Reviewed Journal)
- II. **ESTIMATION OF THE FRICTION PARAMETERS OF LINEAR PNEUMATIC CYLINDERS**
Dağdelen M., Sarıgeçili M. İ.
Mühendislik ve Tasarım Bilimleri Dergisi, vol.8, no.2, pp.397-406, 2020 (Peer-Reviewed Journal)
- III. **Development of a Test Apparatus for Estimation of Friction Parameters at Linear Pneumatic Cylinders**
DAĞDELEN M., SARIGEÇİLİ M. İ.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.34, no.3, pp.131-141, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Control Performance Evaluation of Pneumatic Proportional Pressure Regulating Valves Under Static and Dynamic Conditions**
Dağdelen M., Sarıgeçili M. İ., Özbek N. S.
International Topkapı Congress III, İstanbul, Turkey, 1 - 02 May 2024, pp.649-657
- II. **Interaction Torque Control of Pneumatically Actuated Wrist/Forearm Rehabilitation Robot**
Dağdelen M., Sarıgeçili M. İ., Özbek N. S.
II. International Antalya Scientific Research and Innovative Studies Congress, Antalya, Turkey, 17 - 21 March 2022, pp.546-555
- III. **Conceptual Design of An Axial Fatigue Loading Machine**
Sarıgeçili M. İ., Dağdelen M., Akçalı İ. D.

3rd International 5 Ocak Congress on Applied Sciences, Adana, Turkey, 4 - 05 January 2022, pp.216-221

- IV. **Effect of Pressure Increase Rate and Threshold Speed Parameters to Static Friction Forces in Pneumatic Cylinders**
Dağdelen M., Sarıgeçili M. İ.
III. International Turkic World Congress on Science and Engineering, Niğde, Turkey, 14 - 15 June 2021, pp.838-848
- V. **Evaluation of Cracking Pressure Ratio at Proportional Directional Control Valves for Different Valve Control Signals and Supply Pressures**
Dağdelen M., Sarıgeçili M. İ.
III. International Turkic World Congress on Science and Engineering, Niğde, Turkey, 14 - 15 June 2021, pp.849-856
- VI. **DOĞRUSAL POTANSİYOMETRELERİN MEKANİK SİSTEMLERDEKİ SÜRTÜNME KUVVETİNE ETKİSİ**
DAĞDELEN M., ÖZGÜR H. E., SARIGEÇİLİ M. İ.
4. ÇUKUROVA ULUSLARARASI BİLİMSEL ARAŞTIRMALAR KONGRESİ, Adana, Turkey, 21 - 23 February 2020, pp.205-217
- VII. **DEVELOPMENT OF A PROTOTYPE EXPERIMENTAL SETUP FOR MACHINE LEARNING BASED CONTROL APPLICATIONS**
ÖZGÜR H. E., DAĞDELEN M., SARIGEÇİLİ M. İ.
4. ÇUKUROVA ULUSLARARASI BİLİMSEL ARAŞTIRMALAR KONGRESİ, Adana, Turkey, 21 - 23 February 2020, pp.49-50
- VIII. **Friction Torque Estimation of Vane Type Semi-Rotary Pneumatic Actuators In The Form Of Combined Coulomb-Viscous Model**
DAĞDELEN M., SARIGEÇİLİ M. İ.
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019, pp.1152-1161
- IX. **DESIGN OF AN EXPERIMENTAL SETUP FOR DETERMINING FRICTION PARAMETERS OF LINEAR PNEUMATIC CYLINDERS**
DAĞDELEN M., SARIGEÇİLİ M. İ.
4TH INTERNATIONAL ENERGY & ENGINEERING CONGRESS, Gaziantep, Turkey, 24 - 25 October 2019, pp.637-638
- X. **Üst Uzuv Rehabilitasyon Robotlarında Kontrol Teknikleri**
DAĞDELEN M., SARIGEÇİLİ M. İ.
XVI. Otomatik Kontrol Seminer ve Sergisi, Adana, Turkey, 24 - 25 April 2019, pp.94-101
- XI. **İKİ SERBESTLİK DERECELİ BİLEK VE ÖN KOL REHABİLİTASYON ROBOTUNUN KAPALI ÇEVİRİM KONTROLÜ**
DAĞDELEN M., SARIGEÇİLİ M. İ.
XV. OTOMATİK KONTROL SEMİNER VE SERGİSİ, Adana, Turkey, 25 - 26 May 2017, pp.57-65
- XII. **Development of a conceptual model for wrist/forearm rehabilitation robot with two degrees of freedom**
DAĞDELEN M., SARIGEÇİLİ M. İ.
25th International Conference on Robotics in Alpe-Adria-Danube Region, RAAD 2016, Belgrade, Serbia And Montenegro, 30 June - 02 July 2016, vol.540, pp.523-530

Metrics

Publication: 19
Citation (WoS): 1
H-Index (WoS): 1

Awards

- I. Dağdelen M., Gaziantep Üniversitesi/ Mühendislik Fakültesi/ Fakülte Birinciliği (GNO: 3.92/4.00), Gaziantep

Coaching Duties

Refereeing Duties
