

## Res. Asst. ALPER YILDIRIM

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: JHT-4224-2023

ScopusID: 58195213100

Yoksis Researcher ID: 342246

### Education Information

Doctorate, Marmara University, Faculty of Technology, Mechatronic Engineering, Turkey 2023 - Continues

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Mechatronics Engineering, Turkey 2021 - 2023

Undergraduate, Izmir Katip Celebi University, Faculty Of Engineering-Architecture, Department Of Mechatronics Engineering, Turkey 2015 - 2020

### Research Areas

Machine Dynamics, System Dynamics and Control, Modeling and Simulation of Dynamic Systems

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. Comparative Design Improvement of the Growing Rod for the Scoliosis Treatment Considering the Mechanical Complications**  
Demir U., Akgün G., Kocaoğlu S., Okay E., Heydar A., Akdoğan E., Yıldırım A., Yazı S., Demirci B., Kaplanoglu E.  
IEEE Access, vol.11, pp.40107-40120, 2023 (SCI-Expanded)

### Articles Published in Other Journals

- I. Multi System Level Driving Scenarios Based Topology Optimization of Bracket Design for 2 DoF Vehicle Simulator**  
Demirci B., demir u., AKGUN G., YILDIRIM A., Aküner C.  
International Journal of Automotive Science and Technology, vol.7, no.3, pp.248-258, 2023 (Scopus)
- II. FFT Analysis and Motion Classification of EMG Signals**  
AKGÜN G., DEMİR U., YILDIRIM A.  
Computer Science, pp.130-136, 2022 (Peer-Reviewed Journal)
- III. Fuzzy Decision Based Modeling of Rheostatic Brake System for Autonomous Land Vehicles**  
Sünkün S., Parlak B. O., Yıldırım A., Yavaşoğlu H. A.  
Journal of Computer Science, vol.2022, pp.144-150, 2022 (Conference Book)
- IV. Design of a Toolbox for Kinematic Analysis of Jansen's Linkage**

Sünkün S., Parlak B. O., Yıldırım A., Yavaşoğlu H. A.

Journal of Computer Science, vol.2022, pp.112-119, 2022 (Conference Book)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Intelligent Adaptive Control of Magnetically Growing Rod-Like System**  
Cokatar S., YILDIRIM A., AKGÜN G., AKDOĞAN E., DEMİR U.  
3rd International Conference on Power, Control and Computing Technologies, ICPC2T 2024, Raipur, India, 18 - 20 January 2024, pp.135-138
- II. **Parameter Estimation of Magnetic Growing Rod with Output Error Method**  
Yildirim A., Akgün G., Çokatar S., Demir U.  
2023 Innovations in Intelligent Systems and Applications Conference (ASYU), Sivas, Turkey, 11 - 13 October 2023, pp.1-6
- III. **Neural Network and IoT-based Test Maneuver Deployment for 2 DoF Vehicle Simulator**  
DEMİRCİ B., DEMİR U., AKGÜN G., YILDIRIM A., AKÜNER M. C., ÖZKAN M.  
2022 International Conference on Artificial Intelligence of Things (ICAIoT), 29 December 2022, vol.11
- IV. **Investigation of UWB-IMU Sensor Fusion for Indoor Navigation with DoE**  
Durmus S., DEMİR U., AKGÜN G., YILDIRIM A.  
2023 Innovations in Intelligent Systems and Applications Conference, ASYU 2023, Sivas, Turkey, 11 - 13 October 2023
- V. **Motion Classification of EMG Signals with Deep Learning**  
Akgün G., Yıldırım A., Demir U., Kaplanoğlu E.  
TOK2022 Otomatik Kontrol Ulusal Toplantısı, Elazığ, Türkiye, 15 - 18 Eylül 2022, Elazığ, Turkey, 15 - 18 September 2022

## Supported Projects

Demir U., Akdoğan E., Okay E., Heydar A. M., Kocaoğlu S., Akgün G., TUBITAK Project, Tübitak Proje Numarası : 121E492, Skolyoz Tedavisi için Manyetik Aktüatör ve Kontrol Ünitesinin Geliştirilmesi, 2022 - 2024

## Metrics

Publication: 10

Citation (Scopus): 2

H-Index (Scopus): 1