

## Asst. Prof. GAZİ AKGÜN

### Personal Information

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### Education Information

Undergraduate, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, Turkey 2020 - Continues  
Doctorate, Marmara University, Institute For Graduate Studies İn Pure And Applied Sciences, Department Of  
Mechatronics Engineering, Turkey 2015 - 2019

Postgraduate, Marmara University, Institute For Graduate Studies İn Pure And Applied Sciences, Department Of  
Mechatronics, Turkey 2012 - 2015

Undergraduate, Dicle University, Batman Faculty Of Technical Education, Elektrik Öğretmenliği, Turkey 2000 - 2004

### Dissertations

Postgraduate, El rehabilitasyonu için EMG kontrollü giyilebilir iskelet destek sistemi tasarımı, Marmara University,  
Institute For Graduate Studies İn Pure And Applied Sciences, 2019

Doctorate, El rehabilitasyon dış iskelet robotunun veri güdümlü öngörülü kontrolü, Marmara University, Institute For  
Graduate Studies İn Pure And Applied Sciences, Department Of Mechatronics Engineering, 2019

### Research Areas

Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Biosignal Processing, Rehabilitation,  
Electrical and Electronics Engineering

### Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty Of Technology, Mechatronic Engineering, 2021 - Continues

### Advising Theses

Aküner M. C. , Akgün G., Servo Sistemleri İçin Bir Akıllı Makine Durum İzleme Modeli Geliştirilmesi, Postgraduate,  
H.MUTLU(Student), 2022

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

- I. **Data-Driven Predictive Control of a Pneumatic Ankle Foot Orthosis**  
Ulkir O., Akgun G., Nasab A., Kaplanoglu E.  
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.21, no.1, pp.65-74, 2021 (Journal Indexed in SCI)
- II. **Exoskeleton design and adaptive compliance control for hand rehabilitation**

Akgun G., Cetin A. E. , Kaplanoglu E.

TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.42, no.3, pp.493-502, 2020 (Journal Indexed in SCI)

III. **Real-Time Implementation of Data-Driven Predictive Controller for an Artificial Muscle**

Ulkir O., Akgun G., KAPLANOĞLU E.

STUDIES IN INFORMATICS AND CONTROL, vol.28, no.2, pp.189-200, 2019 (Journal Indexed in SCI)

## Articles Published in Other Journals

I. **An Intelligent Machine Condition Monitoring Model for Servo Systems**

MUTLU H., AKÜNER M. C. , AKGÜN G.

Balkan Journal of Electrical and Computer Engineering, vol.10, no.1, pp.23-29, 2022 (Other Refereed National Journals)

II. **DESIGN AND MYOELECTRIC CONTROL OF AN ACTIVE ORTHOSIS DEVICE USING FINITE STATE MACHINE ALGORITHM**

ÜLKİR O., AKGÜN G., TOPTAŞ E., KAPLANOĞLU E.

Technium: Romanian Journal of Applied Sciences and Technology, vol.2, 2020 (Refereed Journals of Other Institutions)

III. **Mechanical Design of Exoskeleton for Hand Therapeutic Rehabilitation**

AKGÜN G., KAPLANOĞLU E., Çetin A. E. , ÜLKİR O.

Journal of Research in Mechanical Engineering, vol.4, no.1, pp.9-17, 2018 (Refereed Journals of Other Institutions)

## Books & Book Chapters

I. **BİYOMEKATRONİK SİSTEMLERE GİRİŞ**

KAPLANOĞLU E., ÜLKİR O., AKGÜN G.

Papatya Bilim, İstanbul, 2017

## Refereed Congress / Symposium Publications in Proceedings

I. **Real Time Robotic Arm Control Using Wearable GestureArmband**

Ülker O., Akgün G., Kaplanoglu E.

2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.81-87

II. **Mechanical design and analysis of a pneumatic ankle foot orthosis**

Ulkir O., Akgun G., KAPLANOĞLU E.

4th Electric Electronics, Computer Science, Biomedical Engineerings' Meeting, EBBT 2018, İstanbul, Turkey, 18 - 19 April 2018, pp.1-4

III. **ASSESSING THE USABILITY OF A 'NOVEL EXOSKELETON FOR HAND REHABILITATION' DEVICE FROM THE PERSPECTIVE OF PHYSIOTHERAPIST: A QUALITATIVE ANALYSIS RESEARCH WITH IN-DEPT INTERVIEW**

Tonga E., Kaplanoglu E., Akgun G., Timurtaş E., Özen Berkol T., Polat M. G.

1ST INTERNATIONAL CONGRESS ON PHYSIOTECHNOTHERAPY(ICPTT), Sarajevo, Bosnia And Herzegovina, 9 - 13 May 2018, vol.5, pp.80

IV. **THE DEVELOPMENT OF DIGITAL GONIOMETER AND INVESTIGATION OF CLINICALLY USABILITY**

Timurtaş E., Akgun G., Özen Berkol T., Tonga E., Kaplanoglu E., Polat M. G.

1ST INTERNATIONAL CONGRESS ON PHYSIOTECHNOTHERAPY(ICPTT), Sarajevo, Bosnia And Herzegovina, 9 - 13 May 2018, vol.5, pp.85

- V. **Real Time Robotic Arm Control Using Wearable GestureArmband**  
ÜLKİR O., AKGÜN G., KAPLANOĞLU E.  
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 October 2017
- VI. **Wavelet Transform Based Feature Extraction and Classification of EMG Signals**  
AKGÜN G., ÜLKİR O., KAPLANOĞLU E.  
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.72-78
- VII. **EMG Sinyallerinin Öznitelik Çıkarımı ve Geri Yayılımlı Yapay Sinir Ağı, Algoritması İle Sınıflandırılması**  
AKGÜN G., DEMETGÜL M., KAPLANOĞLU E.  
Otomatik Kontrol Ulusal Toplantısı, TOK2013, Malatya, Turkey, 26 September 2013, pp.26-28
- VIII. **Sonlu Durum Makine Yöntemi ile Profitez El Kontrolü**  
AKGÜN G., ALVEROĞLU A., ÖZKAYA G., KAPLANOĞLU E.  
Otomatik Kontrol Ulusal Toplantısı, TOK2013, Malatya, Turkey, 26 September 2013, pp.158-162

## Citations

Total Citations (WOS):8

h-index (WOS):2