

## **Asst. Prof. HANDE ARGUNSAH**

### **Personal Information**

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### **Education Information**

Post Doctorate, New Jersey Institute of Technology, United States Of America 2013 - 2014

Doctorate, Cleveland State University, United States Of America 2007 - 2013

Post Graduate, Kent State University, United States Of America 2005 - 2007

Under Graduate, Bahcesehir University, Faculty Of Engineering And Natural Sciences, Department Of Industrial Engineering, Turkey 2001 - 2005

### **Research Areas**

Biomedical Engineering, Biomechanics, Motion Analysis, Clinical Robots, Rehabilitation, Engineering and Technology

### **Academic Titles / Tasks**

Assistant Professor, Acibadem Mehmet Ali Aydinlar University, Faculty of Engineering, 2014 - Continues

### **Academic and Administrative Experience**

Vice Dean, Acibadem Mehmet Ali Aydinlar University, Faculty of Engineering, Medical Engineering, 2021 - Continues

Assistant Director of the Institute, Acibadem Mehmet Ali Aydinlar University, Graduate School of Natural and Applied Sciences , Biomedical Engineering, 2020 - Continues

Deputy Head of Department, Acibadem Mehmet Ali Aydinlar University, Faculty of Engineering, Medical Engineering, 2016 - 2021

Director of the Center, Acibadem Mehmet Ali Aydinlar University, 2015 - 2020

### **Courses**

Biomechanics, Post Graduate, 2019 - 2020

Biomechanics, Doctorate, 2019 - 2020

Biomechanics, Under Graduate, 2019 - 2020

Quality Management in Healthcare Systems, Under Graduate, 2019 - 2020

Optimization, Under Graduate, 2019 - 2020

Sağlıkta Girişimcilik, Under Graduate, 2019 - 2020

Introduction to Medical Engineering, Under Graduate, 2019 - 2020

## ADVISING THeses

Argunşah Bayram H., Development of a Wearable Balance Sensor That Provides Real-time Tactile Biofeedback and Preliminary Test Results on Pediatric Brain Tumor Patient , Post Graduate, B.YALÇIN(Student), 2019

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

- I. **The influence of biofeedback on physiological and kinematic variables of treadmill running**  
Bayram H., Yalçın B.  
International Journal of Performance Analysis in Sport, vol.21, no.1, pp.156-169, 2021 (Journal Indexed in SCI Expanded)
- II. **Dynamic Functional Stiffness Index of the Ankle Joint During Daily Living**  
Bayram H., BAYRAM M. S. B.  
JOURNAL OF FOOT & ANKLE SURGERY, vol.57, no.4, pp.668-674, 2018 (Journal Indexed in SCI)
- III. **Active functional stiffness of the knee joint during activities of daily living: A parameter for improved design of prosthetic limbs**  
Bayram H., Chien C., Davis B. L.  
CLINICAL BIOMECHANICS, vol.29, no.10, pp.1193-1199, 2014 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Real-Time Balance Feedback Mechanism For Orthopedic and Neuromuscular Diseases Rehabilitation Practices**  
Argunşah Bayram H., Yalçın B.  
Acibadem Sağlık Bilimleri Dergisi, vol.11, no.3, pp.412-417, 2020 (National Refereed University Journal)
- II. **Recent Developments in Above-Knee Prosthetics and the Importance of Energy Recovery in Transfemoral Amputee Gait**  
ARGUNŞAH BAYRAM H.  
Acibadem Sağlık Bilimleri Dergisi, vol.6, no.2, pp.61-68, 2015 (Other Refereed National Journals)

## Books & Book Chapters

- I. **Biomimetics- Nature Based Innovation Application of Biomimetics in the Design of Medical Devices**  
Argunşah Bayram H.  
in: Biomimetics: Nature-Based Innovation, Joseph Bar-Kohen, Editor, CRC, New York , New-York, pp.445-460, 2011

## Refereed Congress / Symposium Publications in Proceedings

- I. **Eğitimde Disiplinler Arası Uygulamalar: Sağlıkta İnovasyon Metodolojisi "Biyotasarım"**  
Argunşah Bayram H., Bayram M. S. B. , Şahiner A. M. , Altıntaş L., Akın A.  
Ulusal Tıp Eğitimi Sempozyumu 2019, Eskişehir, Turkey, 10 - 12 April 2019, vol.1, no.981335, pp.1-2
- II. **Klinikte Biyolojik Geri Bildirim Uygulamaları**  
ARGUNŞAH BAYRAM H.  
21. Biyomedikal Bilim ve Teknoloji Sempozyumu, Turkey, 15 - 16 December 2018
- III. **Real time balance feedback mechanism during orthopedic and neuromuscular disease rehabilitation**  
ARGUNŞAH BAYRAM H., Yalçın B.  
Neuroscience 2018, United States Of America, 6 - 10 November 2018
- IV. **A novel algorithm for individual injury risk mapping with preselected background assessment factors may avoid non-contact injuries with personalized training program**  
ARGUNŞAH BAYRAM H., BAYRAM M. S. B. , Işık A.

Neuroscience 2018, United States Of America, 6 - 10 November 2018

- V. **Correlation of hand-eye coordination and successful free shot rate of elite basketball players**  
ARGUNŞAH BAYRAM H., BAYRAM M. S. B. , Işık A.

Neuroscience 2018, United States Of America, 6 - 10 November 2018

- VI. **Real-Time Balance Feedback Mechanism during Orthopedic and Neuromuscular Disease Rehabilitation**

ARGUNŞAH BAYRAM H.

Society for Neuroscience, 4 - 07 November 2018

- VII. **Real Time Balance Feedback Mechanism During Orthopedic and Neuromuscular Disease Rehabilitation**

Yalçın B., Argunşah Bayram H.

Society for Neuroscience 2018, California, United States Of America, 3 - 07 November 2018, pp.1

- VIII. **A novel algorithm for individual injury risk mapping with preselected background assessment factors may avoid non-contact injuries with personalized training program**

Argunşah Bayram H.

Society for Neuroscience 2018, California, United States Of America, 2 - 04 November 2018, pp.149-151

- IX. **Correlation of hand-eye coordination and successful free shot rate of elite basketball players**  
Argunşah Bayram H.

Society for Neuroscience 2018, California, United States Of America, 1 - 04 November 2018, pp.356

- X. **Biyolojik Geri Beslemenin Koşu Esnasında Vücut Oryantasyonu ve Diz Biyomekaniğine olan Etkisinin İncelenmesi**

ARGUNŞAH BAYRAM H.

21st National Biomedical Engineering Meeting (BIYOMUT), Turkey, 24 - 26 November 2017

- XI. **Minimizing the required number of surface EEG electrodes with focused positioning**

ARGUNŞAH BAYRAM H., BAYRAM M. S. B.

Society for Neuroscience, 8 - 11 November 2016

- XII. **Investigation of Biologic Feedback Influence on Knee Biomechanics during Running**

ARGUNŞAH BAYRAM H., BAYRAM M. S. B.

Society for Neuroscience, 8 - 11 November 2016

## Citations

Total Citations (WOS):4

h-index (WOS):1