

Res. Asst. PhD MEHMET FATİH ÇELEBİ

Personal Information

Email: fatih.celebi@marmara.edu.tr

Web: <https://avesis.marmara.edu.tr/fatih.celebi>

International Researcher IDs

ScholarID: bD-klFUAAAAJ

ORCID: 0000-0001-7149-4130

Publons / Web Of Science ResearcherID: Y-4622-2018

ScopusID: 57212811827

Yoksis Researcher ID: 202992

Education Information

Doctorate, Marmara University, Institute For Graduate Studies In Pure And Applied Sciences, Department Of Electrical And Electronical Engineering (Eng), Turkey 2017 - 2024

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Elektrik-Elektronik Mühendisliği (YI) (Tezli) (İngilizce), Turkey 2014 - 2017

Undergraduate, Anadolu University, Faculty Of Business Administration, Department Of Business, Turkey 2013 - 2016

Undergraduate, Cukurova University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü (İngilizce), Turkey 2009 - 2013

Dissertations

Doctorate, Desing and Control of Textile Based Soft Robotic Systems For Therapeutic Applications, Marmara University, Institute For Graduate Studies In Pure And Applied Sciences, Department Of Electrical And Electronical Engineering (Eng), 2024

Postgraduate, Discrete-time implementation of harmonic control arrays method, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Elektrik-Elektronik Mühendisliği (YI) (Tezli) (İngilizce), 2017

Research Areas

Control and System Engineering, Robotics and Mechatronics Systems, Signal Processing

Academic Titles / Tasks

Research Assistant PhD, Marmara University, Faculty Of Technology, Mechatronic Engineering, 2024 - Continues

Researcher, Istanbul Technical University, Tekstil Teknolojileri Ve Tasarımı, Tekstil Mühendisliği, 2022 - Continues

Research Assistant, Marmara University, Faculty Of Technology, Mechatronic Engineering, 2014 - 2024

Academic and Administrative Experience

Staj Koordinatörü, Marmara University, Faculty of Technology, Mechatronic Engineering, 2014 - Continues

Birim Tanıtım ve Mezunlarla İlişkiler Komisyonu Üyesi, Marmara University, Faculty of Technology, Mechatronic Engineering, 2014 - Continues

Erasmus Coordinator, Marmara University, Faculty of Technology, Mechatronic Engineering, 2014 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Design and Scalable Fast Fabrication of Biaxial Fabric Pouch Motors for Soft Robotic Artificial Muscle Applications**
Yılmaz A. F., Ozlem K., Celebi M. F., Taherkhani B., Kalaoglu F., Atalay A. T., Ince G., Atalay O.
ADVANCED INTELLIGENT SYSTEMS, pp.1-15, 2024 (SCI-Expanded)
- II. **Thermally Driven 3D Seamless Textile Actuators for Soft Robotic Applications**
Atalay O., Ozlem K., Gumus C., Ahmed I. A. K., Yılmaz A. F., Celebi M. F., Cetin M. S., Taherkhani B., Atalay A. T., Ince G.
ADVANCED INTELLIGENT SYSTEMS, pp.1-13, 2024 (SCI-Expanded)
- III. **Thermally Powered Soft Gripper Covered with Silver Coated Nylon Fabric Heater Reinforced with Stainless Steel Yarn**
Taherkhani B., Çelebi M. F., Çetin M. S., Tunçay Atalay A., İnce G., Atalay Ö.
ADVANCED ENGINEERING MATERIALS, pp.1-17, 2024 (SCI-Expanded)
- IV. **Design, modelling and control of a textile-based wearable actuating system with sensor feedback for therapeutic applications**
Çelebi M. F., Tunçay Atalay A., Atalay Ö., Gazi V.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, no.CoDIT 2022 Conference Special Issue, pp.1-13, 2024 (SCI-Expanded)
- V. **DISCOVERY OF AGRICULTURAL DISEASES BY DEEP LEARNING AND OBJECT DETECTION**
Karakaya M., Çelebi M. F., Gok A. E., Ersoy S.
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol.21, no.1, pp.163-173, 2022 (SCI-Expanded)
- VI. **Manufacturing of Microfluidic Sensors Utilizing 3D Printing Technologies: A Production System**
Khorsandi D., Nodehi M., Waqar T., Shabani M., Kamare B., Zare E. N., Ersoy S., Annabestani M., Çelebi M. F., Kafadenk A.
JOURNAL OF NANOMATERIALS, vol.2021, 2021 (SCI-Expanded)

Articles Published in Other Journals

- I. **Resistive Self-Sensing Controllable Fabric-Based Actuator: A Novel Approach to Creating Anisotropy**
Yılmaz A. F., Özlem K., Khalilbayli F., Çelebi M. F., Kalaoglu F., Tunçay Atalay A., İnce G., Atalay Ö.
Advanced Sensor Research, pp.1-12, 2024 (ESCI)
- II. **Air leakage test system for product without atmosphere air connection**
Temiz I., Feyzioğlu A., Çelebi M. F., Ersoy S.
Journal of Mechatronics and Artificial Intelligence in Engineering, vol.4, no.2, pp.40-46, 2023 (Peer-Reviewed Journal)
- III. **A low-cost remote driver sleep monitoring system**
Ekşi Z., Camgöz A. N., Özarslan M., Sözer E., Çelebi M. F., Feyzioğlu A.
Journal of Mechatronics and Artificial Intelligence in Engineering, vol.3, no.2, pp.1-6, 2022 (Peer-Reviewed Journal)
- IV. **Productivity forecast with digital greenhouse automation system for sustainable agriculture**
Gök A. E., Çelebi M. F., Koca A. S., Doğan M., Ersoy S.
Journal of Mechatronics and Artificial Intelligence in Engineering, vol.3, no.1, pp.40-46, 2022 (Peer-Reviewed Journal)
- V. **Analysis of electroencephalography (EEG) signals and adapting to systems theory principles**
Camgöz A. N., Ekşi Z., Çelebi M. F., Ersoy S.
JOURNAL OF COMPLEXITY IN HEALTH SCIENCES, vol.4, no.2, pp.1-6, 2021 (Peer-Reviewed Journal)

VI. Measurement of temperature and displacement with NiTi actuators under certain electrical conditions

Toptaş E., Çelebi M. F., Ersoy S.

JOURNAL OF MEASUREMENTS IN ENGINEERING, vol.9, no.2, pp.87-94, 2021 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Yumuşak Robotik için Tekstil Tabanlı Termal Aktüatörlerin ve Basınç Sensörlerinin Matematiksel Modelleri Mathematical Models of Textile Based Thermal Actuators and Pressure Sensors for Soft Robotics**
ÇELEBİ M. F., TUNÇAY ATALAY A., ATALAY Ö., GAZİ V.
24. Otomatik Kontrol Ulusal Toplantısı TOK 2023, İstanbul, Turkey, 14 - 16 September 2023
- II. **Textile-Based Thermally Driven Actuators for Soft Robotic Mechanotherapy Applications**
Celebi M. F., Beler Z., Dede E., Koçak E. D., Atalay Ö., Tunçay Atalay A., Gazi V.
2022 8th International Conference on Control, Decision and Information Technologies (CoDIT), İstanbul, Turkey, 17 - 20 May 2022, pp.1303-1307
- III. **Giyilebilir İyileştirici Sistemler İçin Yenilikçi Eyleyiciler ve Algılayıcılar**
Belcer Z., Küçükşahin H. N., Camgöz A. N., Sınmaz E. İ., Çelebi M. F., Tunçay Atalay A.
TEKNOFEST 2021 Biyoteknoloji İnovasyon Yarışması, İstanbul, Turkey, 21 - 26 September 2021, vol.1, pp.1
- IV. **Karpal Tünel Sendromu İçin Tekstil Tabanlı Yumuşak Robotik Eldiven**
Belcer Z., Dede E., Çelebi M. F., Tunçay Atalay A.
TEKNOFEST 2020 Biyoteknoloji İnovasyon Yarışması, Gaziantep, Turkey, 22 - 27 September 2020
- V. **A Microcontroller Implementation of Harmonic Control Arrays Method**
ÇELEBİ M. F., DOĞRUEL M.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- VI. **Microcontroller Implementation of a Harmonic Control Arrays System**
Çelebi M. F., Doğruel M.
6th International Conference on Systems and Control (ICSC), Batna, Algeria, 7 - 09 May 2017, pp.145-149
- VII. **The Effects of Antenna Position on RF Exposed Human Head**
CIRIK ACIKAYA F., ÇELEBİ M. F., KUNTER F., ŞEKER Ş. S.
URSI Asia-Pacific Radio Science Conference (URSI AP-RASC), Seoul, South Korea, 21 - 25 August 2016, pp.1349-1352
- VIII. **Değişken Uzaklık ve Açık Değerlerine Sahip RF Dalga Yayılımlarının İnsan Kafa Dokusunda Oluşturduğu SAR ve Sıcaklık Değişimleri**
Cırık Acıkaya F., Çelebi M. F., Kunter F., Şeker Ş. S.
Elektromanyetik Alanlar ve Etkileri Sempozyumu, EMANET 2015, Mersin, Turkey, 13 - 15 November 2015
- IX. **Smith Aşağıının Parametrik Denklemleri Yardımıyla L Devresi Tasarlama Yazılımı**
Çelebi M. F., Samancı C., Cırık Acıkaya F., Bölükbaş D.
URSI-TÜRKİYE 2014 VII. Bilimsel Kongresi,, Elazığ, Turkey, 21 - 23 August 2014, no.77, pp.1-4

Supported Projects

Atalay Ö., Tunçay Atalay A., Çelebi M. F., H2020 Project, Textile-Based Wearable Soft Robotics with Integrated Sensing, Actuating and Self Powering Properties - TEXWEAROTS, 2022 - 2027

Doğruel M., Onat M., Çelebi M. F., TÜBİTAK Project, Development of Adaptive Harmonic Control Arrays and Application to Power Electronics, 2024 - 2026

Yılmaz İ. T., Vargün M., Çelebi M. F., Yapmaz A., Ünaldı A. H., Project Supported by Other Official Institutions, Tek/İki Silindirli İçten Yanmalı Motor İtici Testlerinin Yapılması, 2022 - 2023

Tunçay Atalay A., Gazi V., Çelebi M. F., H2020 Project, Textile-based Wearable Mechanotherapy Device with

Liquid/Vapor Phase Change Actuation - RoboTexTherapy, 2019 - 2021

Boz T., ÇELEBİ M. F., TUBITAK Project, Akıllı Kapı Kilit Sistemi, 2018 - 2020

Metrics

Publication: 22

Citation (WoS): 5

Citation (Scopus): 23

H-Index (WoS): 1

H-Index (Scopus): 2

Entrepreneurship Activities

Limited, HANEIO TEKNOLOJİ LTD. ŞTİ., 05 September 2018, Co-Founder

Representation and Promotion Activities

Institutional Representation, Presidency of the Republic of Türkiye, Turkey, İstanbul, 2022 - 2022

Institutional Promotion, Ministry of Industry and Technology, Turkey, Samsun, 2022 - 2022

Non Academic Experience

HANEIO Teknoloji Ltd. Şti.