

## Asst. Prof. EMRE ÇANAYAZ

### Personal Information

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### International Researcher IDs

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### Education Information

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

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, BİYOMEDİKAL MÜHENDİSLİĞİ (YL) (TEZLİ), Turkey 2010 - 2013

Undergraduate, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2003 - 2008

Associate Degree, Marmara University, Vocational School of Technical Sciences, Electronics and Automation, Turkey 2000 - 2002

### Foreign Languages

English, C1 Advanced

### Research Areas

Rehabilitation, Telemedicine

### Academic Titles / Tasks

Lecturer, Marmara University, Vocational School Of Technical Sciences, Electronics And Automation, 2022 - Continues  
Research Assistant, Marmara University, Vocational School Of Technical Sciences, Electronics And Automation, 2010 - 2022

### Taught Courses And Trainings

Aydın S., Çanayaz E., ÇOCUKLARLA ROBOTİK KODLAMA ORTA SEVİYE EĞİTİM PROGRAMI 1, 2019 - 2020

Aydın S., Çanayaz E., Sarıkaş A., ROBOTİK KODLAMA EĞİTİCİNİN EĞİTİMİ 3 , 2019 - 2019

Aydın S., Sarıkaş A., Çanayaz E., ÇOCUKLARLA ROBOTİK KODLAMA TEMEL SEVİYE EĞİTİM PROGRAMI 2, 2019 - 2019

Sarıkaş A., Çanayaz E., Aydın S., ÇOCUKLARLA ROBOTİK KODLAMA TEMEL SEVİYE EĞİTİM PROGRAMI 1, 2019 - 2019

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

- I. **Fuzzy logic based risk assessment system giving individualized advice for metabolic syndrome and fatal cardiovascular diseases**  
Korkmaz H., Çanayaz E., Birtane S., Altıkardes A.  
TECHNOLOGY AND HEALTH CARE, vol.27, 2019 (SCI-Expanded)
- II. **Tactile processing in children and adolescents with obsessive-compulsive disorder**  
GÜÇLÜ B., Tanidir C., Canayaz E., Guner B., Toz H. I., Uneri O. S., Tommerdahl M.  
SOMATOSENSORY AND MOTOR RESEARCH, vol.32, no.3, pp.163-171, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Machine Learning Deep Learning in Rheumatological Screening A Systematic Review**  
Altıkardes Z. A., Canayaz E., Ünsal A.  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.16, no.3, pp.940-969, 2023 (Peer-Reviewed Journal)
- II. **Evaluation of Neoergasilus japonicus (Ergasilidae) Occurrence on Rudd Scardinius erythrophthalmus Using Fuzzy Logic Approach**  
ÇANAYAZ E., TEKTAŞ M.  
ERZİNCAN FBE DERGİSİ, vol.11, no.2, pp.277-284, 2018 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **How Developed Artificial Intelligence Technologies Find Place in Clinical Practices?**  
Çanayaz E., Altıkardes Z. A.  
in: Tıpta ve Enfeksiyon Hastalıklarında Yapay Zekâ- Enfeksiyon Hastalıkları Özel Konular, Lütüfiye Durmuşoğlu, Zehra Aysun Altıkardes, Editor, Türkiye Klinikleri Yayınevi, Ankara, pp.30-34, 2022

## Refereed Congress / Symposium Publications in Proceedings

- I. **Haralick Feature-Based Deep Learning Model for Ankylosing Spondylitis Classification Using Magnetic Resonance Images**  
Çanayaz E., Altıkardes Z. A., Ünsal A.  
2024 International Conference on INnovations in Intelligent SysTems and Applications (INISTA), Craiova, Romania, 4 - 06 September 2024, pp.1-6
- II. **Machine Learning Algorithms for Detecting Risk of Atrial Fibrillation Using Baseline Holter ECG and Echocardiography Data**  
ÇANAYAZ E., ALTIKARDEŞ Z. A., MERT K. U., DURAL M., AYDIN V., KOCAKAYA O., TOKAY TARHAN S., GÖRENEK B., FAK A. S.  
37. Uluslararası Katılımlı Türk Kardiyoloji Kongresi, İstanbul, Turkey, 18 - 21 November 2021
- III. **Fuzzy Logic Based Risk Assessment System Giving Individualized Advice For Metabolic Syndrome and Fatal Cardiovascular Diseases**  
KORKMAZ H., ÇANAYAZ E., BİRTANE AKAR S., ALTIKARDEŞ Z. A.  
The 7th International Conference on Biomedical Engineering and Biotechnology (ICBEB 2018), Nanjing, China, 17 - 20 October 2018
- IV. **Comparison of Performance of Different Background Subtraction Methods for Detection of Heavy Vehicles**  
ÇANAYAZ E., BÖCEKÇİ V. G.  
Signal Processing - Algorithms, Architectures, Arrangements, and Applications (SPA), Poznan, Poland, 19 - 21 September 2018, pp.50-54
- V. **EKG'den Wavelet Dönüşümü Yardımı ile Transmural Miyokardiskemisinin Belirlenmesi**

ÇANAYAZ E., AKGÜN Ö.

EEMKON 2017, Turkey, 16 - 18 November 2017

- VI. **Development of Decision Support System Using Mamdani Type Fuzzy Logic Clusters for Metabolic Syndrome Risk Assessment**  
Birtane S., ÇANAYAZ E., ALTIKARDEŞ Z. A., KORKMAZ H.  
Medical Technologies National Congress (TIPTEKNO), Trabzon, Turkey, 12 - 14 October 2017
- VII. **Generating an Artificial Intelligent System to Diagnosing Thyroid Gland Related Diseases using Fuzzy Logic and Neural Network**  
KESEN U., SARIKAŞ A., ÇANAYAZ E.  
2ND INTERNATIONAL SYMPOSIUM ON INNOVATIVE TECHNOLOGIES IN ENGINEERING AND SCIENCE (ISITES'xx2014), 18 - 20 June 2014
- VIII. **Web Based GPS Control Syatem Desing snd Implementation**  
KESEN U., KAKİLLİ A., SARIKAŞ A., ÇANAYAZ E.  
World Symposium on Web Applixcation and Networking (ICNwTA'2014), Toronto, Canada, 22 - 24 May 2014, pp.12-15
- IX. **Web based GPS Control System Design and Implementation**  
KESEN U., SARIKAŞ A., ÇANAYAZ E., KAKİLLİ A.  
International Conference on Networks Wireless Technology and Applications (ICNwTA'2014), 22 - 24 March 2014
- X. **Interpretation of Thyroid Blood Tests Using Mamdani Type Fuzzy Logic Sets**  
ÇANAYAZ E., BURAN R., Sarikas A.  
8th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2013, pp.614-616
- XI. **Mamdani Tip Bulanık Mantık Kümeleri Kullanarak Troid Hastalarının Kan Testlerinin Yorumlanması**  
Çanayaz E., Sarıkaş A., Buran R.  
TIPTEKNO 2012, Bursa, Turkey, 1 - 03 November 2012

## Metrics

Publication: 16

Citation (WoS): 17

Citation (Scopus): 25

H-Index (WoS): 2

H-Index (Scopus): 3