

CURRICULUM VITAE



1. Name Lastname: İlhan Aytutuldu

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2. Date Of Birth : 10/08/1991

3. Academic Title : Research Assistant

4. Education Status

Degree	Programme	University	Year
Bachelor's Degree	Information Systems Engineering	Istanbul Technical University / Binghamton University	2009-2015
Master's Degree	Computer Engineering	Bahcesehir University	2017-2019
Doctor's Degree	Computer Engineering	Gebze Technical University	2020-still

Master Thesis Title and Thesis Supervisor (s):

Aytutuldu, I., & Aydın, T. Performance Assessment of Physiotherapy and Rehabilitation Exercises with Deep Learning Derin Öğrenme ile Fizyoterapi ve Rehabilitasyon Egzersizleri için Performans Değerlendirme.

Advisor: Dr. Tarkan Aydın

5. Current Academic Status

Position	Location	Year
Research Assistant	Piri Reis University	2019
Research Assistant	Gebze Technical University	2020-still

6. Tasks in Projects:

ÇAĞRI KODU: 2023-C1-YZ GÖRÜNTÜ	PROJE NO: 33944
YÜRÜTÜCÜ ADI SOYADI: Yusuf Sinan AKGÜL	KURULUŞU: Gebze Teknik Üniversitesi
PROJE ADI: USradioAI: Dil ve Konuşma Terapisi için Ultrason Dil Görüntüleriyle Eğitilen Millimetre Dalga (mmWave) Tabanlı Ses Analiz Sistemi	
PROJE SÜRESİ (AY): 18	TOPLAM PROJE DESTEĞİ: 751.000,00

Proje Başlığı	Dil ve Konuşma Alanında Türkçe Fonetiklerin Sınıflandırılması için Veri Seti Oluşturularak Geliştirilen Derin Öğrenme Modellerinin Hazır Ultrason Görüntüleri Veri Setleri Üzerinde Genelleştirme Çalışmaları
Proje	GTÜ BİLİMSEL ARAŞTIRMA PROJELERİ

Projenin Süresi (ay) :	18
Proje Yürütücüsü	Prof. Dr. Yusuf Sinan AKGÜL
Proje Kodu	2023-A-102-04

7. Undergraduate courses given in the last two years (as Teaching Assistant):

Academic Year	Term	Lecture Name	Student Number
2022-2023	Fall	CSE 241 OOP	100
		CSE 341 Programming Languages	100+
2023-2024	Spring	CSE 312 Operating Systems	100+

8. Works

A. Articles published in international refereed journals:

A1. Aytutuldu, I., Genc, Y., and Akgul, Y. S. (2024). Audio-Only Phonetic Segment Classification using embeddings Learned from Audio and Ultrasound Tongue Imaging Data. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*.

B. Articles published in national refereed journals:

C. Papers presented at international scientific conferences and published in proceedings:

C1. Bilici, Z., Aytutuldu, I., Genc, and Y., Akgul, Y. S. (2024, May). mmWave Frequency Modulated Continuous Wave Radar-based Human Action Recognition. In *2024 32nd Signal Processing and Communications Applications Conference (SIU)* (pp. 1-4). IEEE.

C2. Aytutuldu, İ. and Aydın, T. (2022, May). Performance assessment of physiotherapy and rehabilitation exercises with deep learning. In *2022 30th Signal Processing and Communications Applications Conference (SIU)* (pp. 1-4). IEEE.

C3. Aytutuldu, İ. and Aydın, M. A. (2021, June). Investigation of the noise sensitivity of machine learning algorithms on credit card fraud detection. In *2021 29th Signal Processing and Communications Applications Conference (SIU)* (pp. 1-4). IEEE.