**BURSA TEKNİK ÜNİVERSİTESİ**

**MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ**

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**GÜRÜLTÜ TEMİZLEME**

**LİSANS BİTİRME ÇALIŞMASI**

**DİLARA KANALICI**

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| **Bilgisayar Mühendisliği Bölümü** |
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**Dilara KANALICI**

**18360859013**

**LİSANS BİTİRME ÇALIŞMASI**

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**SESTE GÜRÜLTÜ FİLTRELEME**

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| **Bilgisayar Mühendisliği Bölümü** |
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**Danışman: Dr. Öğr. Üyesi Erdem YAVUZ**

BTÜ, Mühendislik ve Doğa Bilimleri Fakültesi Bilgisayar Mühendisliği Bölümü’nün ............. numaralı öğrencisi Adı SOYADI, ilgili yönetmeliklerin belirlediği gerekli tüm şartları yerine getirdikten sonra hazırladığı “BİTİRME ÇALIŞMASI BAŞLIĞI”başlıklı bitirme çalışmasını aşağıda imzaları olan jüri önünde başarı ile sunmuştur.

**Danışmanı : Prof. Dr. Adı SOYADI** ..............................

Bursa Teknik Üniversitesi

**Öğr. Gör. Dr. Adı SOYADI** ..............................

Bursa Teknik Üniversitesi

**BM Bölüm Başkanı : Doç. Dr. Adı Soyadı** ..............................

Bursa Teknik Üniversitesi ....../......../.......

**Savunma Tarihi :** 28 Haziran 2017

**Jüri Üyeleri : Dr. Öğr. Üyesi Adı SOYADI** .............................

Bursa Teknik Üniversitesi

**İNTİHAL BEYANI**

Bu bitirme çalışmasında görsel, işitsel ve yazılı biçimde sunulan tüm bilgi ve sonuçların akademik ve etik kurallara uyularak tarafımdan elde edildiğini, bitirme çalışması içinde yer alan ancak bu çalışmaya özgü olmayan tüm sonuç ve bilgileri bitirme çalışmasında kaynak göstererek belgelediğimi, aksinin ortaya çıkması durumunda her türlü yasal sonucu kabul ettiğimi beyan ederim.

Öğrencinin Adı Soyadı:

İmzası :

ÖNSÖZ

Danışman hocama, destek olan aileme ve arkadaşlarıma teşekkür ederim.

Haziran 2022 Dilara Kanalıcı

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**SESTE GÜRÜLTÜ FİLTRELEME**

ÖZET

Bu çalışmada ses verilerine rastgele farklı SNR oranlarında Gauss gürültüsü eklenmiştir. Ses dalgalarındaki gürültü bastırmak ve temiz sesin kalitesini arttırmak için filtreleme yapılmıştır. Ses verilerindeki gürültünün Derin Öğrenme yöntemleri kullanmadan filtrelenmesine çalışılmıştır. Farklı filtreleme biçimleri denenmiş ve gözlemler alınmıştır.

**Anahtar kelimeler:** Gürültü bastırma, gürültü azaltma, ses işleme.

**NOISE FİLTERİNG IN AUDİO THESIS TITLE IN ENGLISH HERE**

SUMMARY

In this study, Gaussian Noise has been added to voices. To suppress noises and increase the quality of voice wawes have been filtered. The aim is to suppress the voices without using Deep Learning. Many different filter types had been tried and results saved.

**Keywords:** voice suppression, voice reduction, voice processing.

# SES

Ses, boşlukta yayılmayan bir dalga çeşididir. Günlük hayatta telefonların, mobil cihazların ve video konferans yazılımlarının kullanımının artmasıyla seste istenmeyen ve sesin kalitesini bozan farklı kaynaklardan gelen dalga boyları sorun olmuştur. Bunlara gürültü denmiş ve birçok farklı şekilde giderilmeye çalışılmıştır. Derin öğrenme kullanarak gidermek sık kullanılan bir yöntemdir. Bir diğer yöntem ise karşıt gürültü yardımıyla yok etmektir [1]. Bu çalışmada ise SNR oranlarına göre filtre seçimleri yapılıp, grürltü bastırma işlemi yapılmıştır.

Gürültü bastırmak için Derin öğrenmeden veya gerçek ortamda kurulan filtre devrelerden (örneğin kulaklık filtresi) faydalanılmaktadır. Bu çalışmanın amacı ise farklı filtre çeşitleriyle beyaz gürültünün elimine edilmesi ve basit bir gürültü sisteminin elde edilmesidir. Güültü oranları değiştirilerek farklı stratejilerde denemeler yapılmıştır.

## Literatür Araştırması

Ses verilerini işlemek her zaman zorlanılan alanlardan biri olmuştur. Matematiksel olarak gürültü ve sesin birbiri içindeki dağılımın tespiti düşük oranlarda yapılabilmektedir. Gürültü bastırmak için ZCR gibi farklı parametreler de kullanılmaktadır [2]. Ses değişiminin olduğu alanları yakalamak için özellikle önemlidir [2]. Bu çalışmada çok kullanılan ses filtreleri ile gürültü bastırma çalışması yapılmıştır. ANC system entegrasyonu sıkça kullanılan bir diğer yöntem olmasına ragmen entegrasyonu pratik değildir. Wiener filtre gibi filtrelerin temel kullanımı hata tespiti yapmaktır [3]. Görsellerdeki gürültüleri ve sesteki gürültüleri tahmin ederek ses dalgasında temizlik yapar. Bu yöntem için çok fazla örneğe ihtiyaç duyulup pratik olmadığından bu yöntem de entegre edilmemiştir.

## Hipotez

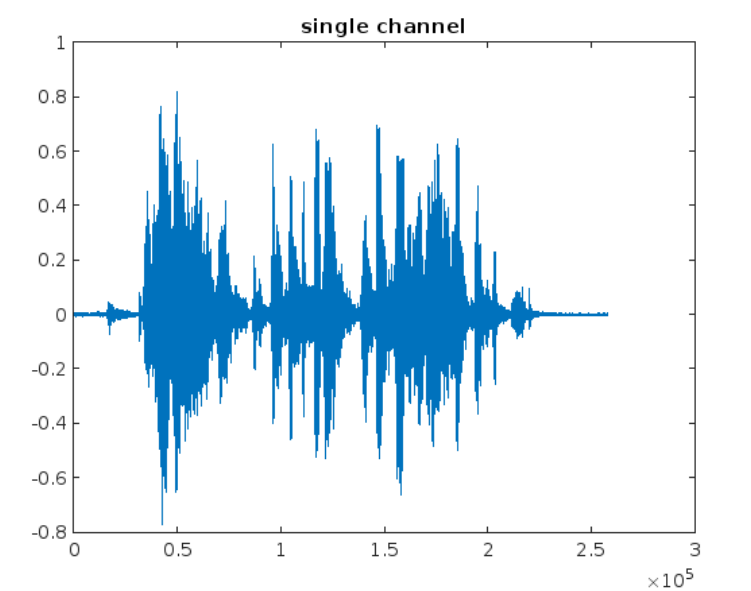
Filtrelerin farklı ses bandındaki (frekans) sesleri geçirmediği bilinmektedir. Günlük hayattaki konuşma sesinin frekans değerlerinin, gürülülü bir ortamdaki frekans değerlerine göre daha hızlı değiştiği bilinmektedir. Buna göre gerekli filtrelerden geçirilerek gürültü azaltma işlemi yapılabilir.

# SESTE İŞLEM YAPMA

Seste işlem yapmak için spectral analizini veya pwelch analizini almak gereklidir. Öncelikle sesin doğasının anlaşılması için ses dalgaları ekrana şekillendirilmiştir.

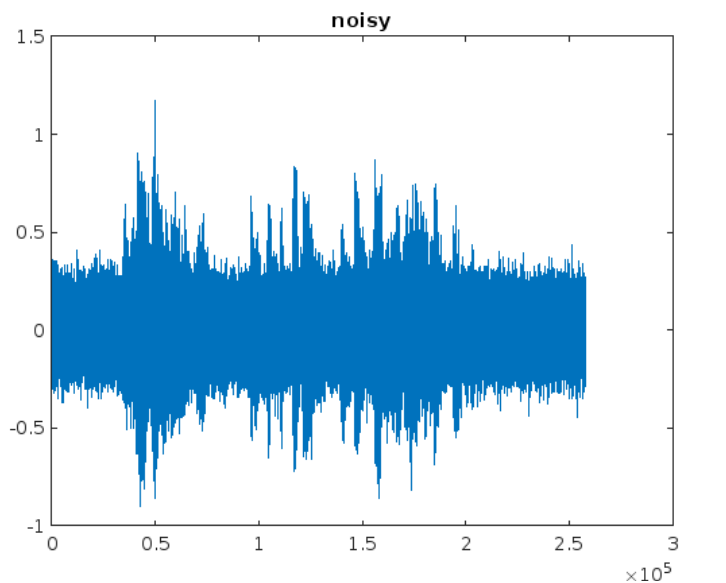
## Veri Analizi

Filtreler uygulanmadan önce veriler ve rastgele atanan gürültü değerleri incelenmiştir.



Şekil 2.1 : Kısa bir konuşmanın dalga biçimlendirmesi(temiz ses)

Temiz sesin daha keskin inişler ve çıkışlar yaptığı gözlenmektedir. Aşağıda sesin güürltülü hali verilmiştir.



Şekil 2.1 : Gauss noise eklenmiş hali

# FİLTRELEME SONUCU ÖRNEK SES DEĞİŞİMİ

Seste işlem yapmak için spectral analizini veya pwelch analizini almak gereklidir. Öncelikle sesin doğasının anlaşılması için ses dalgaları ekrana şekillendirilmiştir.

## Veri Analizi

Filtreler uygulanmadan önce veriler ve rastgele atanan gürültü değerleri incelenmiştir.

Yeterince başarılı olunmasa da kısmen başarı sağlanmıştır.

# SONUÇLAR

Sonuç olarak sesin filtrelerle gürültüden arındırılması bir nebze işe yarasa da aslen yeteri kadar başarılı bir ssitem değildir.

# ÖNERİLER

Belirlenen keskinlik paramterlerine göre derin öğrenme ile eğitim yapılabilir.

KAYNAKLAR

**[1] https://asp-eurasipjournals.springeropen.com/track/pdf/10.1186/1687-6180-2013-17.pdf**

**[2]https://www.researchgate.net/profile/Sivaranjan-Goswami-2/publication/268817013\_ZCR\_Based\_Identification\_of\_Voiced\_Unvoiced\_and\_Silent\_Parts\_of\_Speech\_Signal\_in\_Presence\_of\_Background\_Noise/links/54789d920cf2a961e4877b0f/ZCR-Based-Identification-of-Voiced-Unvoiced-and-Silent-Parts-of-Speech-Signal-in-Presence-of-Background-Noise.pdf**

**[3]** **http://www2.cmp.uea.ac.uk/~bjt/avsp2009/proc/papers/paper-33.pdf**

ÖZGEÇMİŞ

![duvar, iç mekan, kapat içeren bir resim

Açıklama otomatik olarak oluşturuldu](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDqRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAYAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjAzOjMxIDE2OjUxOjAxAAAB6hwABwAACAwAAAjUAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**BİTİRME ÇALIŞMASINDAN TÜRETİLEN MAKALE, BİLDİRİ VEYA SUNUMLAR:**

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