

# **NOISE REDUCTION IN AUDIO SIGNALS**

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## **ABSTRACT**

Noise reduction is the process of removing noise from a signal. Noise reduction techniques exist for audio and images. Noise reduction algorithms may distort the signal to some degree. All signal processing devices, both analog and digital, have traits that make them susceptible to noise. Noise can be random or white noise with an even frequency distribution, or frequency-dependent noise introduced by a device's mechanism or signal processing algorithms. We have different types of filters for removing the different types of noises. it's not necessary that all filter works good for all the noises. Here we are going to analyse the different filters on different types of noises, and showing their performance based on Signal to Noise ratio.

## **REFERENCES**

- 1) <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1455809>
- 2) <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=628424>