

## ANALYSIS AND MODELING OF ELECTROCARDIOGRAM (ECG) SIGNALS

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### Abstract

**Introduction and Purpose:** The survival of all living organisms depends on the electrical signals produced within the organisms. Thousands of electrical signals are always produced and transmitted within our body. By constantly monitoring these signals, information about human health can be obtained and early detection of possible diseases is possible. Of course, such an interpretation can only be made by correctly defining and understanding of these signals. The most popular among these signals is the Electrocardiogram (ECG) signal. Many people know what the shape of an ECG signal looks like, without knowing what it stands for, and that it is a heart-related signal. In this study, the ECG signal, which is vital for all living things, was analyzed using real ECG signals and modeled with as simple method as possible. The performance of the obtained model was demonstrated by comparing it with real ECG signals.

**Materials and Methods:** Real signals were used to analyze ECG signals. For this purpose, the publicly shared data set in the "PhysioNet" database was used. The ECG signals in this database were downloaded to the computer and analyzed by redrawing/processing them in the MATLAB program. The data set used includes many ECG signals from healthy or cardiovascular patients. In this work, only 100 data from healthy patients were used and healthy ECG signals were analyzed and modeled. Important parameters of ECG signals, such as repetition frequency and size, were determined and their mathematical modeling was done.

**Discussion and Conclusion:** As a result of analyzing the real ECG signals, it was seen that the P, R and T peaks, which are the main components of the ECG signal, can be modeled with Gauss functions in the simplest and most accurate way. At this stage, it was observed that the ECG signal was not fully periodic, and the selection of the period was critical for modeling the signal. Based on the results obtained, a model was proposed, and this model was compared with real ECG signals. As a result, it has been shown that ECG signals can be successfully modeled with Gauss functions.

**Key Words:** Electrocardiogram Signal; ECG; ECG Analysis; ECG Modeling



Center for Black Sea Research

# CERTIFICATE OF PARTICIPATION

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# 10<sup>TH</sup> BLACK SEA



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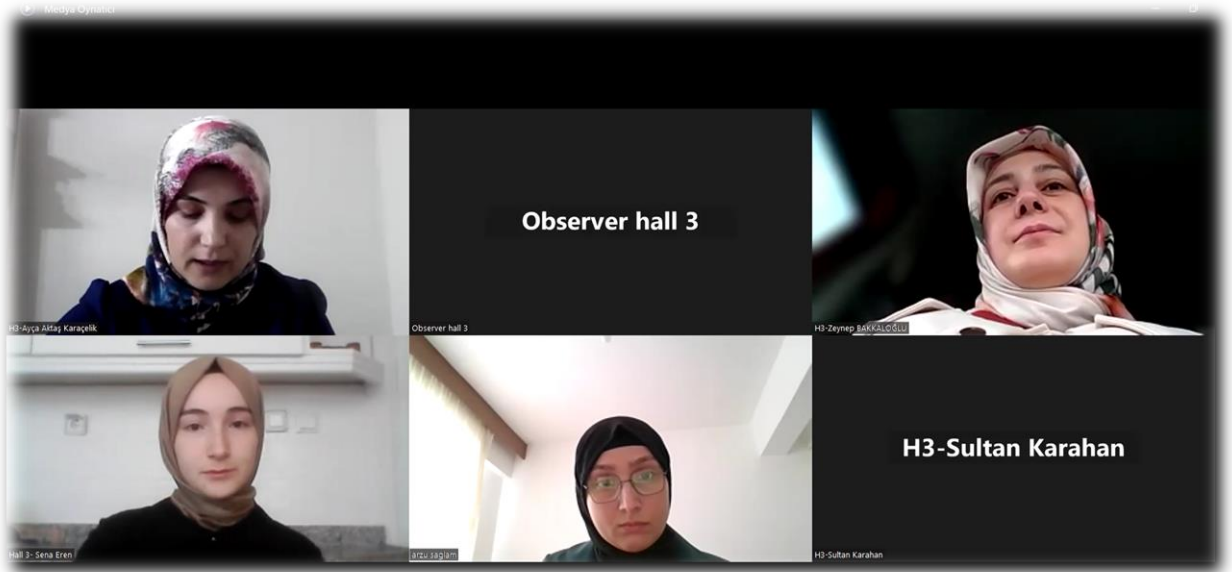
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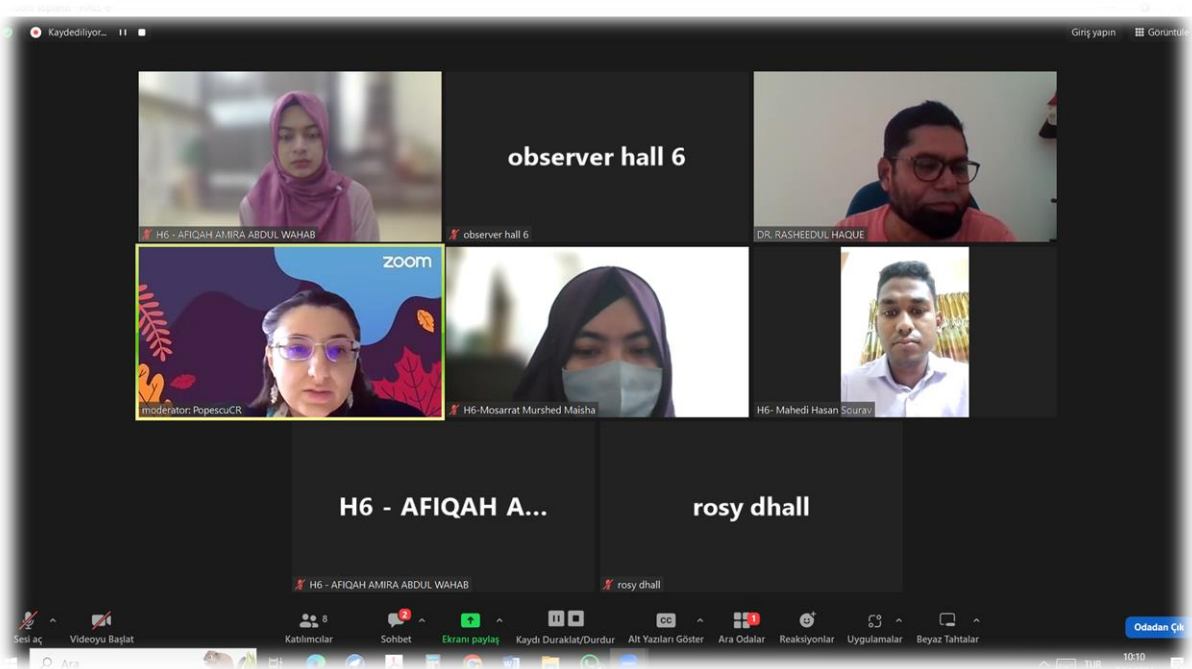
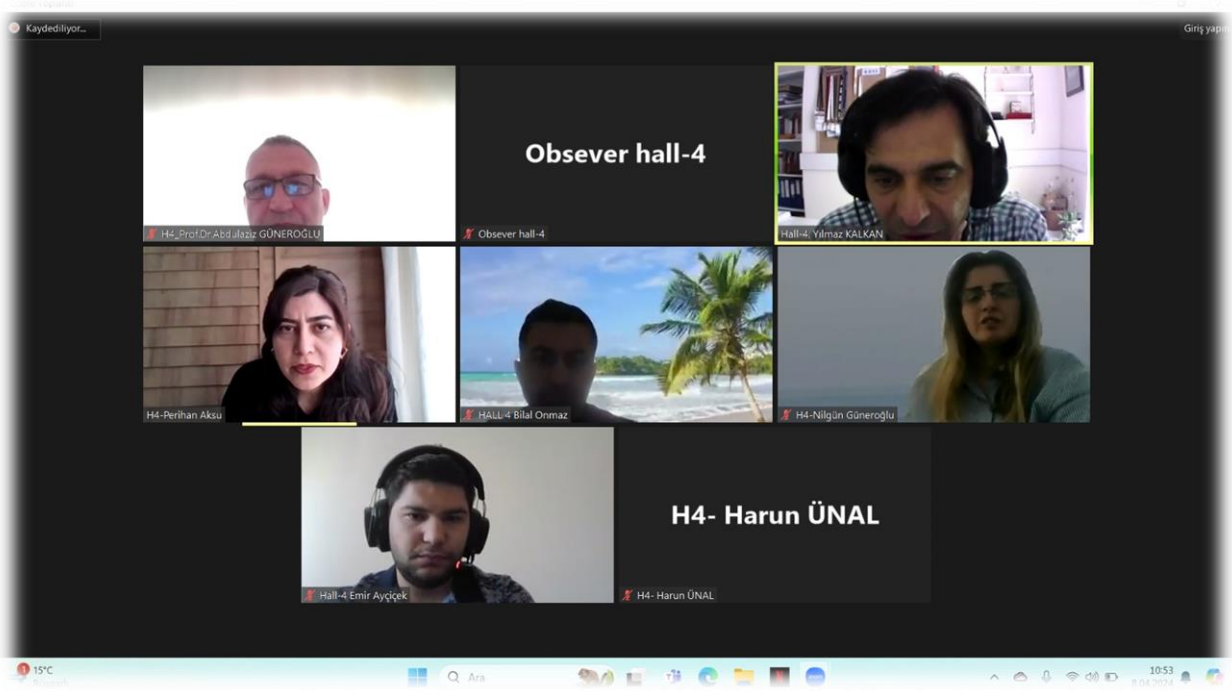
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