

عنوان مقاله:

Improve and Remove Noise from Heart Signal Using Adaptive Filters

محل انتشار:

مجله مهندسی دانش بنیان و نوآوری، دوره 3، شماره 10 (سال: 1396)

تعداد صفحات اصل مقاله: 5

نویسندگان:

B Azarm - Department of Electrical Engineering, Urmia University, Iran

C Ghobadi - Department of Electrical Engineering, Urmia University, Iran

J Nourinia - Department of Electrical Engineering, Urmia University, Iran

B Heydarpanah - Department of Electrical Engineering, Urmia University, Iran

خلاصه مقاله:

An electrocardiogram signal is a graphical representation of the heart activity and offers a series of initial measurements to identify various heart diseases and malformations. The aim of this paper is to remove various noises of ECG signal and improve its quality. In this paper, some of the signals of the human heart are analyzed. These signals have random nature and analyzing them requires to using filters that require no initial fixed input. Therefore, in this paper, adaptive filters have been utilized. According to the simulation results, it is obvious that this type of filtering to remove noise of environmental and biological analysis of heart signal is effective for diagnosis of Cardiac arrhythmia. The results are provided using MATLAB software

کلمات کلیدی:

noise reduction, adaptive filter, heart arrhythmia, analysis, ECG

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/720833>

