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Real time QRS complex detection using DFA and regular grammar

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Abstract

Background: The acquisition of Q, R, and S peaks (QRS) complex detection is a crucial procedure in electrocardiogram (ECG) processing and analysis. We propose a novel algorithm for QRS complex detection based on the dynamic time warping (DTW) algorithm with the addition of some constraints. This paper considers that signals can be used for detecting QRS complex and representing normal ECG signals. A QRS is considered to be a pair of adjacent peaks which meet the four criteria of standard deviation and duration.

Results: The proposed method was applied on several tests of ECG signals issued from the standard MIT-BIH arrhythmia database. A total of 40 signals were used. For an input signal, several parameters were determined such as QRS classes, RR distances, and the peak amplitudes. RR and rRRS parameters were added to quantify the regularity of RR distances and QRS detection, respectively. The sensitivity of the suggested method was 99.74% and the specificity was 99.94%. Moreover, the sensitivity and the specificity rates according to the top-100 Miss and False were 99.99%.

Conclusions: Regular grammar with the addition of some constraints and additional rules summarizes a novel algorithm for ECG signal analysis. Compared to traditional methods, the use of grammar provides satisfactory and competitive results and makes it more comparable to or more better than those used in the literature.

Keywords: ECG signal, QRS complex, RR distance, DFA, Regular grammar

Background

The acquisition of Q, R, and S peaks complex detection is one of the most frequently addressed tasks in ECG signal processing and analysis. A wide range of methods allowing high detection rates have been proposed and used [1–4]. Nevertheless, the problem remains open since the variety of ECG signals and the noise that might impact them. These methods include the Sugiura-Veitch algorithm (SVA) [5–10], the fuzzy neural networks [11–14] and the wavelets [1, 17–24]. Saha et al. [15, 16] utilized the first-order derivatives of the Gaussian function as a window for the discrimination of ECG beats. The authors used the dyadic wavelet transform to detect and measure the different parts of a signal, especially the baseline at the beginning and the end of the QRS complex. Subsequently, it showed the robustness of the algorithm in the presence of a high-frequency noise added to the signal. In [11], a dyadic wavelet transform was used to extract

Real Time Qrs Complex Detection Using Dfa And Regular Grammar

Michael Rajnik



Real Time Qrs Complex Detection Using Dfa And Regular Grammar:

Unveiling the Magic of Words: A Review of "**Real Time Qrs Complex Detection Using Dfa And Regular Grammar**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Real Time Qrs Complex Detection Using Dfa And Regular Grammar**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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