

In this paper, we present an improved version of ECG delineation approach based on the continuous wavelet transform and singlescale approach. The algorithm was design to detect five main ECG significant points, which are QRS onset, QRS offset, T wave offset, P wave onset and P wave offset. The introduced approach was evaluated on the standard CSE multilead database. The obtained delineation results are comparable with other methods and accomplished given database criteria. The implemented algorithm improvement significantly increases accuracy of the P wave offset detection, which was the problematic part of the previous version of this method.