Pattern Recognition of a Digital ECG

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Abstract. The process of assisted ECG diagnosing mimics the way a medic would act upon. Such a process inevitably comprises the feature extraction step, when the standard ECG signal components: the QRS complex, the P wave and T wave are detected. Using a pattern recognition algorithm for the purpose is one of the available options. In this article, the pattern recognition approach for the feature extraction routine is explained by analysis of consecutive steps and its effectiveness is discussed in comparison to other means of QRS complex detection.

Keywords: Pattern recognition; QRS detection; Performance engineering.