Special Issue

Applications of Artificial Intelligence in ECG

Message from the Guest Editor

Since 2019, electrocardiogram (ECG) analysis based on deep learning has been investigated to enable the diagnosis of diseases that cannot be diagnosed using conventional ECG. Recent studies have shown that deep learning-enabled ECG can be employed to detect heart failure, pulmonary hypertension, hyperkalemia, and many other diseases. Various technologies based on deep learning have been discovered, such as the generation of precordial six-lead ECGs from limb six-lead ECGs. The use of deep learning for analyzing ECG needs to be validated more precisely, to enable it to be used in the real clinical environment and to provide solid insights to discover novel medical knowledge.

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