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Abstract
Cardiovascular diseases are always listed in ten major causes of death according to the statistical data of the Department of Health in recent years. There is a tendency towards increase each year. The pathological changes of Arteries are the major causes of the cardiovascular diseases. However, cardiovascular diseases are also listed in ten major causes of death according to the statistical data of the Department of Health about middle-aged people, which there is a tendency towards increase each year. Not only have the aged people suffered from cardiovascular diseases, but also middle-aged people should prevent the symptoms.
The interface of the designed system includes the storage interface of physiological signal and the analysis interface of physiological signal. The storage interface of physiological signal can display and record the physiological signal that there are ECG, PCG and 4-channel PPG. Heart rate (HR) and pulse wave velocity (PWV) can be real-time calculated. The analysis interface of physiological signal can choose bilateral analysis, left-sided analysis or right-sided analysis in the optional mode. There are four advanced analysis mode can be setup. HR, PWV, Stiffness Index and Reflection Index can be analyzed by using the designed computer functions. The system can be used to evaluate the sclerosis characteristic of full-body arteries with a long-term record.
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