

Special Issue

Artificial Intelligence in Diagnosis and Management of Cardiovascular Diseases

Message from the Guest Editors

In recent years, artificial intelligence (AI) has shown great potential in the diagnosis and risk prediction of cardiovascular diseases. Deep learning and image recognition technology enable the automatic analysis of cardiovascular images available, making the identification of cardiac lesions quickly and accurate. This not only improves diagnostic efficiency, but also reduces the rate of misdiagnosis and missed diagnosis caused by human factors. Machine learning technology helps analyze huge amounts of clinical data and identify potential risk factors (such as high blood pressure, hyperlipidemia, diabetes, etc.) so that doctors can intervene in advance to reduce the risk of cardiovascular disease. AI also plays an important role in patient management and follow-up. Smart wearable devices and remote monitoring systems can monitor patients' heart rate, blood pressure and other physiological indicators in real time, detect abnormalities in time and notify doctors for intervention. This Special Issue aims to share the latest applications of AI technology in cardiovascular medicine. Original research articles and reviews are welcome.

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