Special Issue

AI-based Sensing for Health Monitoring and Medical Diagnosis

Message from the Guest Editor

AI-based sensing for health monitoring and medical diagnosis has the potential to reform healthcare provision, improving patients' care while reducing costs. AI-based sensors are being developed to monitor, measure, analyse and interpret vital signs such as heart rate, blood pressure, respiration rate and oxygen levels without direct contact with the patient. Sensing technology enables patients' tracking over time, and AI methods can inform medical decision making by healthcare professionals by recognising early trends or abnormalities that can potentially indicate a health issue before it becomes serious. AI-based sensors also allow for the remote monitoring of patients with chronic conditions such as diabetes or hypertension, and can be used for the early detection of infectious diseases such as influenza or coronavirus. In this context, AI and sophisticated data analysis methods enable identifying patterns from large amounts of data collected by various sources, such as wearables or medical records, and can help both researchers and clinicians discover new insights into disease prevention and treatment, and make preventive care decisions.

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