

Prospects of Wearable AI Biosensor Networks in the Future Medical and Healthcare

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Abstract

The driving force behind the rapid development of wearable biosensors is the rising demand for life well-being of people and healthy lifestyle. In recent years, researchers focused on developing continuous, non-invasive, and real-time monitoring of physiological mobility, vital signs, and biomarkers in biofluids related to personal health status. Thanks to the advances in wireless communication, data storage and computing technologies, wearable devices are able to communicate and share the information collected between each other to build a wearable sensor network. The increasing data storage and computing capacity of smartphone and cloud servers enable the integration of artificial intelligence with wearable biosensors. The wearable AI biosensor network can potentially change the future medical and healthcare system and provide patients with effective disease prevention, timely diagnosis and treatment.

Received: March 10, 2022; **Accepted:** March 17, 2022; **Published:** March 24, 2022

Biography

Yihan Zhang has completed his MEng degree in 2021 from Imperial College London and he is currently a first-year PhD student in Yetisen's research group at Imperial College London.

His research mainly focuses on application of artificial intelligence in wearable sweat-based holographic biosensors.