Special Issue

Medical Internet of Things: From Biosensor Devices, System to Artificial Intelligence

Message from the Guest Editors

For many global health problems, effective treatments already exist. However, limited access to diagnostic equipments often results in late diagnosis and delayed treatment. The medical Internet of Things (IoT) is endowed with expectation to fulfil the rigid demand, which requires that all kinds of digital medical devices link and access to the internet to acquire the real-time parameters related to personalized health, such as medical images, biochemical and biophysical parameters. The family doctors or medical Artificial Intelligence (AI) system can access the related biomedical information of their patients and give precise, personalized and preventive healthcare consultations. The medical data acquisition is the basis for the construction of medical IoT. The proposed issue will cover all aspects of medical IoT, from on chip biological sample preparation to medical sensor development, biomedical sensor network, big health data processing and AI application in medicine, which is capable of providing a systematic view on the medical IoT.

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Deadline for manuscript submissions

closed (15 September 2018)

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 7.1
Indexed in PubMed

mdpi.com/si/11459

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Micromachines (ISSN 2072-666X) is a forum for cutting-edge interdisciplinary research on micro and nanoscale science and technology. We emphasise the practical, real-world value of micro and nanotechnologies that will place *Micromachines* in a leading position among engineering and technology journals.

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