

Special Issue

Application of Deep Learning and Blockchain in Healthcare Systems

Message from the Guest Editors

With the development of the Internet of Things (IoT) and artificial intelligence (AI), the healthcare field has been gradually digitized. In the current digital era, AI-driven healthcare systems have become a popular direction to pursue. Deep learning/ machine learning has been proven to be useful in all areas of healthcare applications, including but not limited to disease diagnosis, healthcare monitoring, patient identification, treatment recommendation, dietary assessment, privacy protection and other specialized healthcare support in image analysis. For example, AI-driven healthcare systems can provide semi/fully-automated diagnostic services to assist doctors in making decisions and developing solutions. Moreover, AI techniques can also be utilized to assist the operation of surgery, such as through manipulation, navigation, etc. With the combination of IoT and AI technology, wearable medical devices/sensors can further facilitate the long-term monitoring of a patient's health conditions, which reduces the burden of practitioners and improves the efficacy of treatment.

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Deadline for manuscript submissions

closed (31 December 2023)



Healthcare

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 4.7
Indexed in PubMed



mdpi.com/si/158431

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Healthcare is an international, scientific, peer-reviewed, open access journal on health care systems, industry, technology, policy, and regulation, and is published semimonthly online by MDPI. Ocular Wellness & Nutrition Society (OWNS) is affiliated with Healthcare and its members receive discounts on article processing charges.

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