Journal of Imaging

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Internet-of-Medical-Things-Streamed Medical-Image-Based Recommendation and Optimization Techniques Using Federated Learning

Guest Editor:

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Deadline for manuscript submissions:
closed (28 February 2024)

Message from the Guest Editor

Nowadays, the use of Internet of Medical Things (IoMT) devices has the great potential to revolutionize the biomedical and healthcare. IoMT devices include a wide range of connected medical devices. However, the utilization of the IoMT devices also raises several concerns about the security and privacy of the patients. Federated Learning (FL) is a distributed machine learning technique that basically allows multiple IoMT devices to collaborate while keeping the sensitive patients' data secure.

FL-based IoMT is able to transform healthcare services by enabling personalized healthcare, disease management, and the early detection of infectious diseases from image datasets. Personalized medication recommendations for chronic diseases can be generated through analyzing data from multiple IoMT devices and tailoring the treatment plans to individual patients. The early detection of infectious diseases can be achieved by analyzing real-time data from the connected devices and identifying outbreaks before they become widespread. This Special Issue invites researches on IoMT-based medical image using FL to improve healthcare delivery and patient outcomes.

Journal of *Imaging*

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Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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