Special Issue

Computer Technologies in Personalized Medicine and Healthcare

Message from the Guest Editors

Various computer technologies are transforming the practice of medicine and healthcare. It has been well-recognized that personalized medicine and healthcare would be much more effective than the traditional one-size-for-all model. The availability of smartphones, smartwatches, and health trackers makes it possible for collect valuable data from individuals. The collected data can then be analyzed and used to train personalized models, which could lead to early diagnosis of diseases and personized treatments. Technologies have also been used to help diagnose some diseases much faster, and potentially with higher accuracy. On the other hand, the availability of consumer-grade depth cameras makes it possible to develop systems that be deployed at residential homes to help guide patients to perform rehabilitation exercises for a speedy recovery. Furthermore, virtual reality has been used in the medical setting to reduce patient pain levels.

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