Special Issue

Wearable and Ubiquitous Technology-Based Algorithms for Analytics in Healthcare

Message from the Guest Editors

Low-cost wearable and ubiquitous sensing technologies may provide a pragmatic key to unlocking the next level of diagnosis support systems. They could provide scalable solutions that provide insightful habitual data of an individual beyond the confines of a clinic. Such data are complex given the heterogeneity of possible testing environments and how individuals perform the activities of daily living. Intelligent systems with smart algorithms must interpret the data in a robust manner to ensure that the derived outcomes are valid and reliable. Moreover, the outcomes must be sensitive to the research hypothesis/question and therefore grounded in their clinical application. Today, various algorithms involving a plethora of approaches, such as feature extraction and/or machine learning, have been applied. The application of such novel methods to the healthcare sector can aid clinicians in making an accurate and timely diagnosis as well as in providing individualised management of the patient from data gathered beyond the clinic.

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Editor-in-Chief

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