Special Issue

Artificial Intelligence, Digital Sensors and Data Science in Bio-Medicine

Message from the Guest Editor

The accelerated digitization of the biomedical space leads to an expontial growth of available data originating from many different sources. Besides information on the patient history, blood chemistry, or other conventional images, modern sensor technologies can provide a continuous flow of big data at any time and in real-time from outside and inside the human body. The still developing lab-on-a-chip technology even increases the amount and complexity of data originating from nano-scale material. The extraction of structured data in standardized formats also from any sensor or nano device is critical to fill data warehouses and allow for the use of machine intelligence in a robust and sustainable manner. The connectivity and interoperability of sensors through concerted interfaces will yield even larger data sets accumulating real-world evidence on the fly. This facilitates the mining of complex and multi-dimensional data through artificial intelligence and machine learning. Bio-medicine requires such data strategies to develop next-generation medical devices as well as advanced therapies.

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