

IoT by means of Machine Learning techniques

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Abstract

With the rapid development of Internet of Things (IoT) technology, billions of smart devices are being connected into a whole network and streaming out a huge amount of data every moment. Unimaginable potential value can be mined from these data with the help of “Cloud Computing” and “Machine Learning” techniques. The target of our research is to address the benefits of IoT in social applications, especially in healthcare area, by developing a multilayer framework. Low cost data collection, efficient data transfer, flexible data management and accurate data analysis mechanisms will be included in the framework. A Smart Decision Support System is supposed to be developed on the basis of this framework.

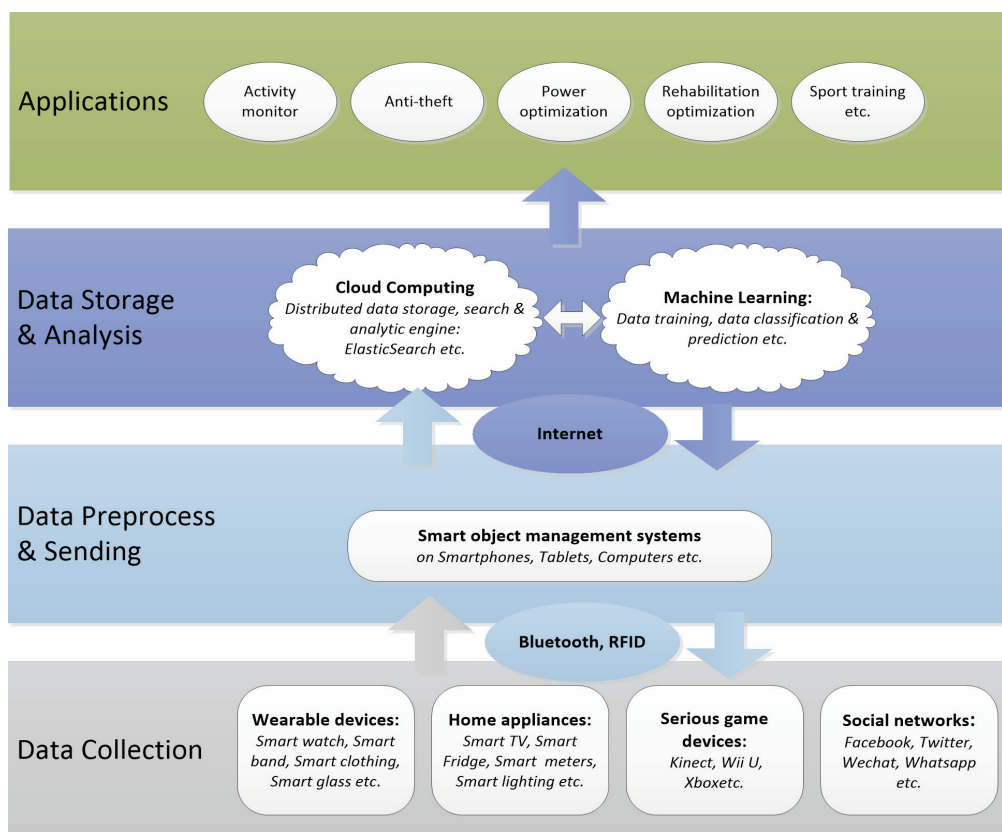


Figure 1 Overall framework of social applications on the basis of Internet of Things

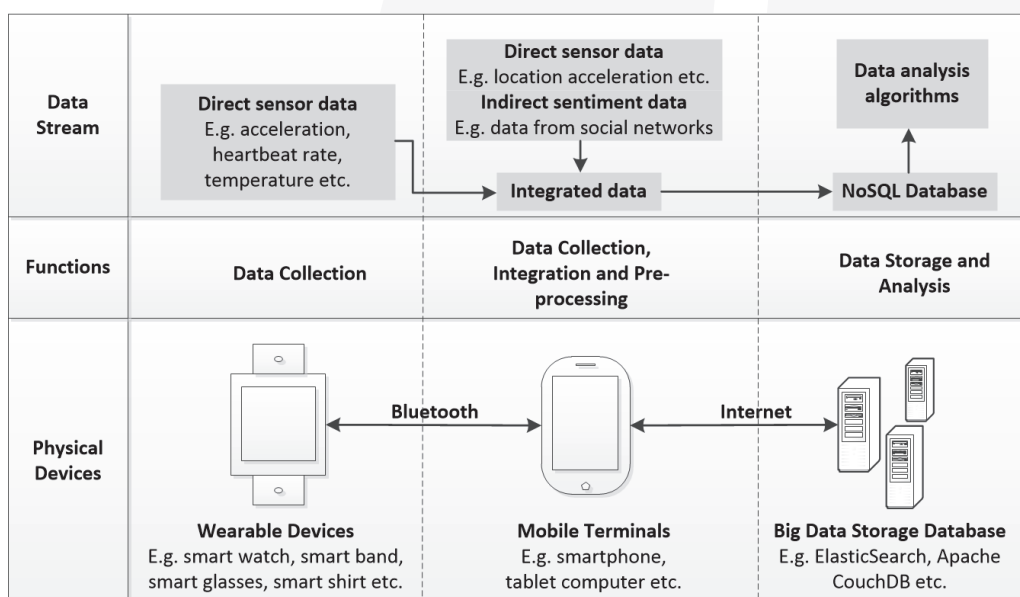


Figure 2 An example of the data collection and management system