

MoBio - A mobile application for collecting data from sensors



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There are a lot of sensors for monitoring human health and/or fitness level on the market. They facilitate collection of data from the human body and advanced devices even facilitate data transfer to remote servers where the collected data are further processed. While health data, obtained e.g. from accelerometers or chest straps, are collected rather frequently, brain electrophysiology data, obtained from surface electrodes, are still collected relatively rarely. However, integration and correlation of brain signals with other sensory data would be very interesting for next research of physical and mental health. Although capturing brain signals in real environment still faces technological difficulties, current development of common infrastructure seems to be useful. Then this article deals with various architectures and data formats used for storage and transfer of sensory data and their possible integration with existing neuroinformatics approaches. As a solution we introduced a terminology describing data from a limited collection of sensors. The terminology is implemented in the odML format and integrated in a proof-of-concept Android application. Data transfer, storage and visualisation as well as integration with a remote neuroinformatics resource are presented.

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