**Weekly Work Report 5/31/2024**

**This Week:**

**Working on the new dataset**

* **Data preparation**
  + Total Subjects: **38**
  + Files per Subject folder: **11**
  + Size of each Subject zip file: **12 GB**
  + **New software OpenBCI** https://github.com/OpenBCI

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* + **Empatica**

1. TEMP.csv

Data from temperature sensor expressed degrees on the Celsius (°C) scale.

1. EDA.csv

Data from the electrodermal activity sensor expressed as microsiemens (μS).

1. BVP.csv

Data from photoplethysmograph.

1. ACC.csv

Data from 3-axis accelerometer sensor. The accelerometer is configured to measure acceleration in the range [-2g, 2g]. Therefore the unit in this file is 1/64g.

Data from x, y, and z axis are respectively in first, second, and third column.

1. IBI.csv

Time between individuals heart beats extracted from the BVP signal.

No sample rate is needed for this file.

The first column is the time (respect to the initial time) of the detected inter-beat interval expressed in seconds (s).

The second column is the duration in seconds (s) of the detected inter-beat interval (i.e., the distance in seconds from the previous beat).

1. HR.csv

Average heart rate extracted from the BVP signal.The first row is the initial time of the session expressed as unix timestamp in UTC.

The second row is the sample rate expressed in Hz.

1. tags.csv

Event mark times.

Each row corresponds to a physical button press on the device; the same time as the status LED is first illuminated.

The time is expressed as a unix timestamp in UTC and it is synchronized with initial time of the session indicated in the related data files from the corresponding session.

* + **Pupil:** Cannot open pldata file **pupil labs? App** https://github.com/pupil-labs/pupil

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**WMC:**

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**Next Week:**

* Review **literature** on relevant signals.
* Collaborate with Gai on the new dataset:
  + Be familiar with experimental data
  + Schedule a meeting with Xuanchang and **Gai** , Prof. K, to discuss the experiment data.
  + Preprocess the experiment data
  + Convert the data to CSV files