Dataset examples explained

Elina3_nogapfilling.mat → motion tracking data

Contains the 3D locations of markers detected by the motion tracking system captured at 300 Hz.

The synchronization LED is situated at approximately the following coordinates `[637.1 457.7 193.6]`

Pianosync.wav → synchronization signal captured on the same device as the MIDI signal from the piano

Captured at 44.1 kHz

Perfusion_and_sync_19-Dec-2023-11_15_20.mat → National Instruments Data Acquisition Unit is used to capture Blood perfusion and synchronization signal at 1 kHz

Column 1: synchronisation channel = pseudorandom binary pulse

Column 2: blood saturation right arm [0-5V] = [0-100%]

Column 3: blood saturation left arm [0-5V] = [0-100%]

opensignals_000780589b3a_2023-12-19_11-12-23.txt → Plux Biosignals sEMG sensor data captured at 1 kHz.

Explaining header at top of file (custom channel is the sync signal)

ECTest2.csv → blood perfusion sensor data captured with its accompanying software instead of daq. This is captured at 5Hz and processed in a black box manner by the MoorVMS software. The data here can be matched with the blood perfusion data captured by the daq at 1 kHz