



minutes



Friedrich-Alexander-Universität
Erlangen-Nürnberg



Sub project / GAP (incl. sub projects): D02 / A04

Date and location: 06.04.2022, Zoom

Participants: Markus Heyder, Hui Lu, Misha Sadeghi, Nils Albrecht, Dominik Langer, Stephanie Böhme

Keeper of the minutes: Misha Sadeghi

Date and location for next meeting: 04.05.2022

topic 1 - Actual status in Hamburg

content/description:

- Production comes with some problems
- First measurements will take place soon
- Develop a sensor concept → enlarger scales especially needed in clinical assessment → takes some time
- New radar is not suitable for large scale measurements right now
- Number of sensors are problematic
- Clarified which functions the new Gui needs to make it suitable for D02 --> no others than actual ones
- Presentation of the old Gui (written by Sven Schellenberger)

tasks and responsibilities:

- Only 2 sensors (new and old radar) for D02
- Gui will be in Python (ip and port will be omitted, just need to save a file, conversion to CSV, timestamps)
- Just Respiration and pulse (we do not need the heart sound)

topic 2 - Synchronization

content/description:

- To have the exact time stamps from the system clock is possible in the radar data but it is problematic when different software is used to measure different data (physiology, video, radar)
- The SynBoard is the most important thing to get exact synchronization of different data streams

tasks and responsibilities:

- Next step is connecting the BioPac to the SyncBoard (Johanna) and the radar

topic 3 - Actual status D02

content/description:

- Experimental setup is improved
- Also the App will be finalized soon
- Maybe it takes 1 month

tasks and responsibilities:

- D02 have to start with solely the old radar (new radar may be ready in 3 months, at the earliest)

topics for next meeting

- ☐ The radar development progress
- ☐ How is the quality of the radar with the presence of chair (hard one and the one with the mesh) between the sensor and the participant?
- ☐ Synchronization progress for the sync board (Johanna)
- ☐ Location of the sensors (the old and the new one)
- ☐ Exact chair materials

Notes:

- Need an additional meeting to clarify analysis strategy for first radar data study (wiz1)
 - Next D02/A04 meeting will be in one month
 - 20 to 30 cm is the preferred distance between the radar and the participant
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