

New avenues towards mobile brain computer interfaces

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Propositions of the thesis

New avenues towards mobile brain computer interfaces: the impact of real-time and fast fMRI

Michael Lührs, Maastricht, September 27th, 2018

1. Combining the knowledge gained from different brain imaging modalities speeds up the advancements in each modality.
2. Automatized procedures will be essential for the success of neurofeedback therapy.
3. Re-analyzing data based on current knowledge can result in new, unexpected findings.
4. Translating knowledge from closely related modalities is important to avoid redundancy.
5. A high temporal resolution in fMRI and fNIRS is beneficial to eliminate unwanted signal sources.
6. The avoidance of signal artifacts like motion is always superior to data correction.
7. Encouraging early stage researchers to work together with scientists from other fields will increase the diversity in research.
8. More review articles comparing imaging modalities used for neurofeedback are necessary to verify its potential.
9. Translating research findings into an easy to use software package creates a direct value for the research community.
10. Encouraging researchers to publish non-significant findings is crucial to make research more reproducible.