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Brain-Computer Interface (BCI) using OpenViBE, an open-source software platform for Brain-Computer Interfaces [hands-on tutorial]

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OpenViBE is a software platform dedicated to designing, testing and using brain-computer interfaces (BCIs). It can be used to acquire, filter, process, classify and visualize brain signals in real time. During the first part of the session, a general overview of the BCI context and of the software will be given. We will also present several examples of use of OpenViBE in the BCI domain. During the second part, we will propose a step-by-step tutorial in which participants will design a simple motor imagery based BCI scenario from pre-recorded EEG signals.