

MIDI2020 Conference – 09/12/2020

Cortivision Sp. z o. o.

**A portable fNIRS system for measuring brain activity
in a VR environment**

Abstract

In our short presentation, we will show how to quickly and easily measure the cerebral cortex's activity using the new fNIRS portable system from Cortivision. We will demonstrate how to create an experimental procedure, set up the device, calibrate sensors, and export signals for analysis. We will primarily focus on measuring brain activity in movement conditions and integrating various biological signals via LSL protocol, e.g., for cognitive experiments in a VR environment. We believe that our solution will be interesting for professionals in UI/UX, ergonomics, cognitive neuroscience, and brain-computer interfaces.