

Mearsurment of functional near-infrared spectroscopy signals in distracted drivers

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Abstract

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Protocol

10 minutes for subjects to adapt to the driving simulator.

Step 1.

Use the calibration function of the instrument to ascertain the channels to fall exactly in correspondence of the 10/10 electrode positions.

Step 2.

Place the template at the corresponding positions of PFC, MC, and OC.

Step 3.

Adjust the hair of the channel with low signal to noise ratio with a glass rod.

Step 4.

Make sure the signal is good and stable, and 5 minutes for subjects to rest.

Step 5.

Start marking and recording data.

Step 6.

20 minutes for subjects to maintain resting state.

Step 7.

5 minutes for subjects to rest.

Step 8.

20 minutes for subjects to perform staight driving.

Step 9.

5 minutes for subjects to rest.

Step 10.

20 minutes for subjects to perform straight driving with an audio task.

Step 11.

5 minutes for subjects to rest.

Step 12.

20 minutes for subjects to perform straight driving with an vigilance task.

Step 13.