Creation of Comfortable and Concentrated Workplace

in Consideration of Audio-Visual Stimuli M2 Daisuke Matsumoto

Backgrounds

Business scenes and study places

Creating an environment that enhances intellectual productivity

Creating a Concentrated Work Environment

Purpose

Evaluation of comfort and concentration in sound and light environments based on brain activity

2023

Identifying the right environment for the work

Comfort and intellectual productivity

Contents

Brain activity in sound environments

OSubjective evaluation of sound environment

 Considering the inhibition of concentration of speech information



OEvaluation of sound environment by fNIRS

Understanding brain regions

Brain activity in light environments

OSubjective evaluation of sound environment

·Identification of light environment suitable for work based on illuminance and color temperature

OEvaluation of sound environment by fNIRS

Understanding brain regions

Performance evaluation by combined stimulation of sound and light environments

·Improved work efficiency when changing sound and light environments

Creating a comfortable and Concentrated work environment with sound and light