



이름: 심미선 / Shim, Miseon

직책: 연구교수 / Research professor

소속: 고려대학교 / Korea University

강연 제목: 신경생리학적 데이터를 활용한 인공지능 기반의 정신건강 디지털 헬스케어 시스템(AI-Based Digital Mental Healthcare Systems Using Neurophysiological Data)

Abstract:

After the COVID-19 pandemic, the population suffering from various mental health problems, such as depression, anxiety, stress, and social isolation, is increasing, leading to a growing interest in mental healthcare. Early diagnosis of mental health problems can increase recovery rates and prevent severe brain dysfunction, but several issues hinder early diagnosis, including limited access to the mental hospital and issues with diagnostic objectivity. Therefore, to improve early diagnosis rates of mental problems, artificial intelligence (AI)-based digital mental healthcare systems are being actively developed by increasing accessibility to mental healthcare services through digital platforms. In particular, since mental health problems arise from abnormal brain function rather than anatomical issues, neurophysiological data, including electroencephalography (EEG), is suitable not only to develop digital mental healthcare systems but also to investigate distinct functional brain characteristics. In this presentation, we investigated unique functional characteristics of mental health problems and developed AI-based digital mental healthcare systems to assist accurate diagnosis of mental health problems using EEG data.

Brief Biosketch

주요연구분야: Neural Engineering, Neurophysiological Biomarkers, AI-based Digital Healthcare

2020.03 - 현재: 고려대학교 산업기술연구소, 연구교수

2019.06 - 2020.02 금오공과대학 첨단의료기기연구소 선임연구원

2017.04 - 2019.04 University of Missouri Kansas-City

2017.02 한양대학교 생체공학과 박사