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강연제목: 뇌 신호를 사용하는 새로운 의사소통 방법: 뇌-컴퓨터 인터페이스

(Novel Communication Method Using Brain Signals: Brain-Computer Interface)

Abstract:

Brain-computer interface (BCI) is state-of-the-art technology in the computational neuro-engineering field. Patients with locked-in syndrome, who cannot communicate with people due to severe motor impairments, can make novel communication channels by using the BCI system. In this talk, Dr. Han will introduce the overall background knowledge about the BCI system including brain signal recording, experimental paradigms, preprocessing algorithms, and machine/deep learning algorithms for BCI systems. Furthermore, BCI studies by performed Dr. Han will be introduced in the talk.

Brief Biosketch

Dr. Chang-Hee Han is currently an assistant professor at the department of software in Dongseo University since 2021. Dr. Han graduated from the Department of Biomedical engineering, Yonsei University in 2011. He received his M.S. and Ph.D. degrees from the Department of Biomedical Engineering at Hanyang University in 2014 and 2018, respectively. He had worked as a postdoctoral research associate at Machine Learning Group, Technical University of Berlin, Germany, from March 2018 to August 2020) and as a research professor at Hanyang University from September 2020 to February 2021. His research interests cover various fields of computaional neuroengineering, such as brain-computer interface, human-computer interface, neuroengineering, neurocinematics, neurofeedback, non-invasive brain stimulation, and so on.