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강연제목: MATLAB 을 이용한 생체신호처리

(Biomedical Signal Processing using MATLAB)

Abstract:

Biomedical signal processing involves the analysis of various physiological measurements of the body to provide useful information upon which clinicians can make decisions. Engineers are discovering novel ways to process these signals using a variety of mathematical formulae and algorithms. Working with traditional bio-measurement tools, the signals can be computed by software to provide physicians with real-time data and greater insights to aid in clinical assessments. This tutorial will provide basic hands-on about biomedical signal processing using MATLAB programming for biomedical research, specially targeted in the field of neuroscience.

Brief Biosketch

Dr. Do-Won Kim is currently an associate professor at the School of Healthcare and Biomedical Engineering of Chonnam National University since 2016. Dr. Kim received his B.S and Ph.D. from Yonsei University majoring in Biomedical Engineering in 2008 and 2013, respectively. Since then, he moved to Institute of Biomedical Engineering at Hanyang University and had post-doc training under Dr. Chang-Hwan Im from 2013 to 2015. From 2015, he moved to Technical University of Berlin as a visiting scholar under supervision of Dr. Klaus Robert Mueller. His current research topics include developing novel neural signal analysis methods and novel paradigms for brain-computer interfaces, and noninvasive brain stimulation. He also has a deep interest in using deep learning techniques on developing early detection of psychiatric diseases using neural signals.