

Distinguished Lecture Series

Learning Brain Functional Networks for Mental Disorder Diagnosis



연사: Dinggang Shen 교수

소속: University of North Carolina at Chapel Hill

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Abstract

Brain functional connectivity and the complex brain networks are very informative for investigation of cognitive function and its alterations due to various mental disorders. In this talk, I will present our recently developed methods for high-order brain network construction, directional network modeling, and various advanced machine learning and deep learning frameworks for learning discriminative features from brain networks for individualized disease diagnosis. I will also briefly introduce our newly developed toolbox, for facilitating clinicians and neuroscientists to construct brain functional networks and conduct network-based analysis/classification. All the methodological advances and their clinical applications are bringing brain functional network analysis from bench to bedside.

주최: 고려대학교 BK21플러스 뇌공학글로벌인재양성사업단

후원: 고려대학교 뇌공학과, 뇌공학연구소, 뇌인지과학 융합전공, 인공지능연구센터

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