

2022년 제 3회 통계세미나

고려대학교 통계연구소와 BK21 통계학교육연구팀이 다음과 같이 공동으로 세미나를 개최하오니 많은 참여 바랍니다.

일시 : 2022년 4월 15일(금) 오전 11시

장소 : 고려대학교 정경관 201 호

연사 : 민은정 교수 (가톨릭대학교 의생명·건강과학과)

Tensor Canonical Correlation Analysis

<Abstract>

Canonical correlation analysis (CCA) is a multivariate analysis technique for estimating a linear relationship between two sets of measurements. Modern acquisition technologies, for example those arising in biomedical area such as neuroimaging produce data in the form of multi-dimensional arrays, also as known as tensors. Classic CCA is not appropriate for dealing with tensor data due to the multidimensional structure and ultra high-dimensionality of such modern data. In this talk, we introduce tensor CCA (TCCA) model to discover relationships between two tensors. TCCA finds a pair of loading tensors while simultaneously preserving multi-dimensional structure of the tensors and utilizing substantially fewer parameters. Results of simulation studies will be discussed to illustrate the advantage and performance of our methods.

고려대학교 통계연구소
BK21 통계학교육연구팀