

2022년 제 11회 통계세미나

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

일시 : 2022년 9월 30일(금) 오전 11시

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Wasserstein norm-based tests for equality and effect of groups for distributional data

<Abstract>

In the recent decade, the interest in non-Euclidean data has been significantly increasing with the advent of complex data. Such kinds of data sets arise numerously in various research, industrial and scientific fields. Among those, we focus on the distributional data consisting of the realizations obtained from the subject specific distribution induced by the intrinsic mean distribution. We consider the problems how to extract their commonalities and make inferences on the population under the distributional data circumstance. Specifically, we regard the subject specific distribution as the functional object and transform them to a linear space to model the entire distribution and deal with the non-linearity. The benefits of the proposed method are shown through simulation studies and application to an magnetic resonance imaging based radiomic dataset from Glioblastoma Multiforme patients.

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