

2022년 제 7회 통계세미나

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

일시 : 2022년 6월 10일(금) 오전 11시

장소 : 고려대학교 정경관 201 호

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Estimation of a buffering window in functional linear cox regression models for spatially-defined environmental exposure

<Abstract>

In environmental health research, it is of interest in understanding the effect of the neighborhood environment on health. Researchers have shown a protective association of green space around residential address and depression outcomes. In the assessment of exposure to green space, distance buffers are often used to quantify green space exposure. However, buffer distances differ across studies, primarily are determined by researchers a priori and it remains uncertainty in identifying an appropriate buffer distance for exposure assessment. To address geographic uncertainty problem for exposure assessment, we present a domain selection algorithm based on the penalized functional linear Cox regression model. The theoretical properties of our proposed method are studied and simulation studies are conducted. The method is illustrated in a study of the effect of green space exposure on depression and/or antidepressant use in the Nurses' Health Study.

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