

2023년 제 4회 통계세미나

고려대학교 통계연구소와 BK21 통계학교육연구팀, 그리고 DS+가 다음과 같이 공동으로 세미나를 개최하오니 많은 참여 바랍니다.

일시 : 2023년 3월 31일(금) 오전 11시

장소 : 온라인 ZOOM 세션

연사 : 한경희 교수 (University of Illinois at Chicago, Mathematics, Statistics, and Computer Science)

Shape-constrained statistical inference on functional regression models with incomplete functional responses

<Abstract>

In this talk, we will present shaped-constrained functional regression analysis for incomplete functional responses within a unified framework encompassing three sampling scenarios: (1) partially observed response functions as curve segments over random sub-intervals of the domain; (2) discretely observed functional responses with additive measurement errors; and (3) the composition of former two scenarios, where partially observed response segments are observed discretely with measurement error. The latter scenario has been little explored to date, although such structured data is increasingly common in applications. We propose measuring deviations between the constrained and unconstrained model estimates for statistical inference. Large sample properties of the proposed test procedure will also be presented, including the consistency, asymptotic distribution, and local power of the test statistic.

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