성균관대학교 응용통계연구소
세미나 안내

응용통계연구소 세미나를 다음과 같이 개최합니다.

■ 일 시 : 2021년 11월 25일 목요일 오전 10:30

■ Webex 주소 : 2517 027 3712

■ 연 사 : 양호진 교수님 (부산대학교 통계학과)

■ 발표 제목 : Transformed Function on Scalar Regression for
Random Distribution

Abstract: The aim of this paper is to develop a transformed function on the scalar regression model, using the functional principal components to account for random distribution. This framework allows us to model functions transformed from random distributions by using the functional principal components approach in a transformed functional space, and then to regress functional principal component scores on multiple sets of predictors in their projected space. Thereby, we can estimate the underlying model parameters as well as the effect of the covariates in the projected space. Then, these parameters are transformed back to the original distributional space to understand the subject-specific random distributions. We also conduct hypothesis testing and predict random distributions for any given predictors.

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Homepage: https://swb.skku.edu/rias/index.do

☎ 02-760-1295   e-mail: riasmaster@skku.edu