## 정보통계•보험수리학과 학과세미나

- 일시: 2018년 7월 11일(수) 오후 4:30
- 장소: 베어드홀 517호
- 연사: Ray-Bing Chen (Department of Statistics, National Cheng Kung University, Taiwan)
- 주제: Greedy Active Learning Algorithm for Logistic Regression Model

## <Abstract>

We study a logistic model-based active learning procedure for binary classification problems, in which we adopt a batch subject selection strategy with a modified sequential experimental design method. Moreover, accompanying the proposed subject selection scheme, we simultaneously conduct a greedy variable selection procedure such that we can update the classification model with all labeled training subjects. The proposed algorithm repeatedly performs both subject and variable selection steps until a prefixed stopping criterion is reached. Our numerical results show that the proposed procedure has competitive performance, with smaller training size and a more compact model, comparing with that of the classifier trained with all variables and a full data set. We also apply the proposed procedure to a well-known wave data set (Breiman et al., 1984) to confirm the performance of our method.