Tutorial by Bruce Hansen

17 December 2021

Model Selection, Model Averaging, Shrinkage, and Machine Learning Schedule and Topics

The tutorial will be organized into four 45-minute sessions, each starting on the hour.

- 15:00 to 15:45: Model Selection
 - o BIC, AIC, Mallows, CV, Consistent Selection, Asymptotic Optimality
- 16:00 to 16:45: Model Averaging
 - o SBIC, SAIC, Least Squares Averaging, Mallows Averaging, Jackknife Averaging, Optimality
- 17:00 to 17:45: Shrinkage
 - o Stein-Rule, theory, applications
- 18:00 to 18:45: Machine Learning
 - o Principle components, Ridge regression, Lasso, Random Forests