

Conditional density estimation by penalized maximum likelihood model selection

Erwan Le Pennec

Projet SELECT, INRIA Saclay, France,

Email: `Erwan.Le_Pennec@inria.fr`

In this talk, which is a companion talk form the CLAPEM one, I will present a novel conditional density estimation method based on a penalized maximum likelihood. I will explain how this conditional density estimation problem is related to an unsupervised classification problem, show a rather general oracle inequality satisfied by this estimator. I will also focus on the theoretical tools used in the proof.