Séminaire de Probabilités et Statistiques

Mardi 13 septembre de 14h00 à 17h00
Laboratoire Dieudonné
Salle de Conférences

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Basic models and questions in statistical network analysis.

Extracting information from large graphs has become an important statistical problem since network data is now common in various fields. In this minicourse we will investigate natural statistical questions in three different contexts :

  (i) presence of community structure

 (ii) presence of geometric structure

(iii) dynamic networks.

Outline :
— A primer on exact recovery in the general stochastic block model.
— Estimating the dimension of a random geometric graph on a high-dimensional sphere.
— Confidence sets for the original vertex in scale-free random graphs.