STATISTICAL INFERENCE FOR A PARTIALLY OBSERVED INTERACTINGSYSTEM OF HAWKES PROCESSES

Chenguang Liu*1

¹LIU – Chine

Résumé

We observe the actions of a K sub-sample of N individuals until time t for some large K smaller than N.

We do not know if the individuals i and j are connected or not. We model their relationships by i.i.d. Bernoulli(p)-random variables, where p in (0,1] is an unknown parameter. Each individual acts autonomously at some unknown rate $\mu > 0$ and acts by mimetismats omer at eproportional to the sum of some function ϕ of the age

^{*}Intervenant