

Conference on Applications of Network Theory

Contribution ID : 282

Geography, Community and Privacy in Complex Networks

Thursday 07 Apr 2011 at 10:20 (00h40')

Many complex networks have their nodes distributed in space. In this talk, I will describe various recent results for spatially distributed networks. In particular, I will report results obtained from a community detection method on a large network constructed from communications between millions of mobile phone users at a country level. I will quantify in this network the decrease with distance of connection probability between mobile phone users and will describe a conjecture about a possible explanation for the observed decrease. If time permits, I will finally describe a surprising and unexplained connection between how people relocate in the US and the eigenvectors of a matrix constructed from the relocation network.

Primary authors :

Co-authors :

Presenter : Prof. BLONDEL, Vincent (University of Louvain)

Session classification : --not yet classified--

Track classification : --not yet classified--

Type : --not specified--