Data science and Complex networks seminar

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Előadó: István Miklós (Rényi Institute)

Cím: Exact sampling of graphs with prescribed degree correlations

Abstract:
Many real-world networks exhibit correlations between the node degrees. For instance, in social networks nodes tend to connect to nodes of similar degree. Conversely, in biological and technological networks, high-degree nodes tend to be linked with low-degree nodes. Degree correlations also affect the dynamics of processes supported by a network structure, such as the spread of opinions or epidemics. The proper modelling of these systems, i.e., without uncontrolled biases, requires the sampling of networks with a specified set of constraints. We present a solution to the sampling problem when the constraints imposed are the degree correlations. Furthermore we would like to give a brief survey of our current knowledge of generating such random networks.

András London, Vinkó Tamás
http://www.inf.u-szeged.hu/~london/network-seminar.html [1]

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