Data science and Complex networks seminar

Dear All

the next seminar on Data science, complex networks and mathematical modelling will be on the **9th of March from 15:15**.

**The place** of this seminar will be the **2nd floor seminar room of the Arpad ter building**.

**Speaker:** Federico Musciotto (Univ Palermo and CEU): *Timely evolution and core of communities of statistically validated projections of bipartite networks*

**Abstract:**

Many complex systems are naturally organized in bipartite networks, i.e. networks with two disjoint sets of node, usually characterized by high heterogeneity. Although useful information can be extracted from these networks, their projections are not always stable and robust against errors in the data or other sources of noise. A solution to this issue is based on statistically validated networks, which reduce the original system by considering only the links which are statistically significant. In this way, cores of the real communities of the system are obtained with a high level of precision. Moreover, the methodology of SVN can be extended in order to track the evolution in time of the communities of a system. In this talk I will show the results of these methods on a dataset of stock market Finnish investors, characterized by high heterogeneity with respect to trading activity. This work is the result of a collaboration with Luca Marotta, Jyrki Piilo and Rosario N. Mantegna.

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Please forward this link to anyone who may be interested in the topic and also to your PhD and master students.

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

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**Links:**