

SZEMINÁRIUM

Az ELTE Valószínűségelméleti és Statisztika Tanszék szemináriumán

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Generating hierarchial scale-free graphs from fractals

címmel tart előadást.

Helyszín: 1117 Budapest, Pázmány Péter s. 1/C, D 3-316. terem.

Kivonat:

Motivated by the hierarchial network model of E. Ravasz, A.-L. Barabási and T. Vicsek, we introduce deterministic scale-free networks derived from a graph directed self-similar fractal Λ . With rigorous mathematical results we verify that our model captures some of the most important features of many real networks: the scale-free and the high clustering properties. We also prove that the diameter is the logarithm of the size of the system. Using our (deterministic) fractal Λ we generate random graph sequence sharing similar properties.