Subgraph Statistics in Subcritical Graph Classes

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We prove that the number of occurrences of a given subgraph H of subcritical graph class satisfies a central limit theorem with mean and variance that are asymptotically linear in the number of vertices. The proof is based on the analysis of infinite systems of generating functions.

References

[1] Drmota, M., Ramos, L., Rue, J. Subgraph statistics in subcritical graph classes submitted manuscript, http://arxiv.org/abs/1512.08889