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A randomised approximation algorithm for counting the number of forests in dense graphs.
(English) [Zbl 0809.05086](#)
Comb. Probab. Comput. 3, No. 3, 273-283 (1994).

A polynomial-time randomised algorithm for uniformly generating forests in a dense graph is presented. Using this, a fully polynomial randomised approximation scheme for counting the number of forests in a dense graph is created.

Reviewer: J.D.Annan (Oxford)

MSC:

[05C85](#) Graph algorithms (graph-theoretic aspects)
[05C05](#) Trees
[05C30](#) Enumeration in graph theory
[68R10](#) Graph theory (including graph drawing) in computer science
[68Q25](#) Analysis of algorithms and problem complexity
[60C05](#) Combinatorial probability

Cited in **11** Documents

Keywords:

randomised approximation algorithm; randomised approximation scheme; counting the number of forests; dense graph

Full Text: [DOI](#)

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- [14] DOI: 10.1017/S0305004100068936 · [Zbl 0747.57006](#) · [doi:10.1017/S0305004100068936](#)
- [15] DOI: 10.1137/0206049 · [Zbl 0366.02024](#) · [doi:10.1137/0206049](#)
- [16] DOI: 10.1215/S0012-7094-40-00718-9 · [Zbl 0024.16501](#) · [doi:10.1215/S0012-7094-40-00718-9](#)

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