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Maximum tree-packing in time $O(n^{5/2})$. (English) [Zbl 0901.68150]


Summary: The problem of determining the maximum number of node-disjoint subtrees of a tree $T$ on $n_t$ nodes isomorphic to a tree $S$ on $n_s$ nodes is shown to be solvable in time $O(n_s^{3/2}n_t)$. The same asymptotic bounds are observed for the corresponding problems where topological imbedding and subgraph homeomorphism are respectively substituted for subgraph isomorphism.

MSC:

68R10 Graph theory (including graph drawing) in computer science

Keywords:

graph matching

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References:

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