

Zoltán Szigeti : On packing of arborescences

We provide the directed counterpart of a slight extension of Katoh and Tanigawa's result on rooted-tree decompositions with matroid constraints. Our result characterizes digraphs having a packing of arborescences with matroid constraints.

It is a proper extension of Edmonds' result on packing of spanning arborescences and implies

-- using a general orientation result of Frank -- the above result of Katoh and Tanigawa.

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