Out-branchings with Extremal Number of Leaves

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Abstract

An out-tree T in a digraph D is subgraph of D which is an orientation of a tree that has only one vertex of in-degree 0 (root). A vertex of T is a leaf if it has out-degree 0. A spanning out-tree is called an out-branching. We'll overview some recent algorithmic and theoretical results on out-branchings with minimum and maximum number of leaves.