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At least version of the generalized minimum spanning tree problem

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ABSTRACT. We consider the at least version of the Generalized Minimum Spanning Tree Problem, denoted by L-GMST, which consists in finding a minimum cost tree spanning at least one node from each node set of a complete graph with the nodes partitioned into a given number of node sets. We describe new integer programming formulations of the L-GMST problem and establish relationships between the polytopes corresponding to their linear relaxations.

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