Approximation Results for the Generalized Minimum Spanning Tree Problem

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Abstract. We consider the Generalized Minimum Spanning Tree problem denoted by GMST. It is known that the GMST problem is NP-hard. Throughout this paper we distinguish between so-called positive results and negative results in the area of approximation theory. We present an inapproximability result for the GMST problem and under special assumptions we give an approximation algorithm for the problem.

MSC: 90C11, 90C27, 05C05, 90B10.

Keywords: approximation algorithms, combinatorial optimization, generalized minimum spanning trees, LP relaxation.