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The maximum integer multiterminal flow problem in directed graphs. (English)

Summary: Given an arc-capacitated digraph and \( k \) terminal vertices, the directed maximum integer multiterminal flow problem is to route the maximum number of flow units between the terminals. We introduce a new parameter \( k_L \leq k \) for this problem and study its complexity with respect to \( k_L \).

MSC:
90C35 Programming involving graphs or networks
05C20 Directed graphs (digraphs), tournaments

Keywords:
integer multiterminal flow; directed graphs; \( APX \)-hardness; approximation algorithms

Full Text: DOI

References:
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