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Polynomial cases of hypergraph local edge-connectivity augmentation

Content :

Cosh et al. proved that, given a hypergraph H and local edge-connectivity requirements, finding a minimum number of graph edges to be added to H in order to satisfy the requirements is NP-complete. We prove a minimax theorem and a polynomial algorithm solving two subcases of the above problem. Our proof relies on a slight generalization of Mader's splitting off theorem to hypergraphs.

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