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Mathematical Model to Design an Optimal Natural Gas Pipeline Network: A Case Study in Mazandaran Gas Company

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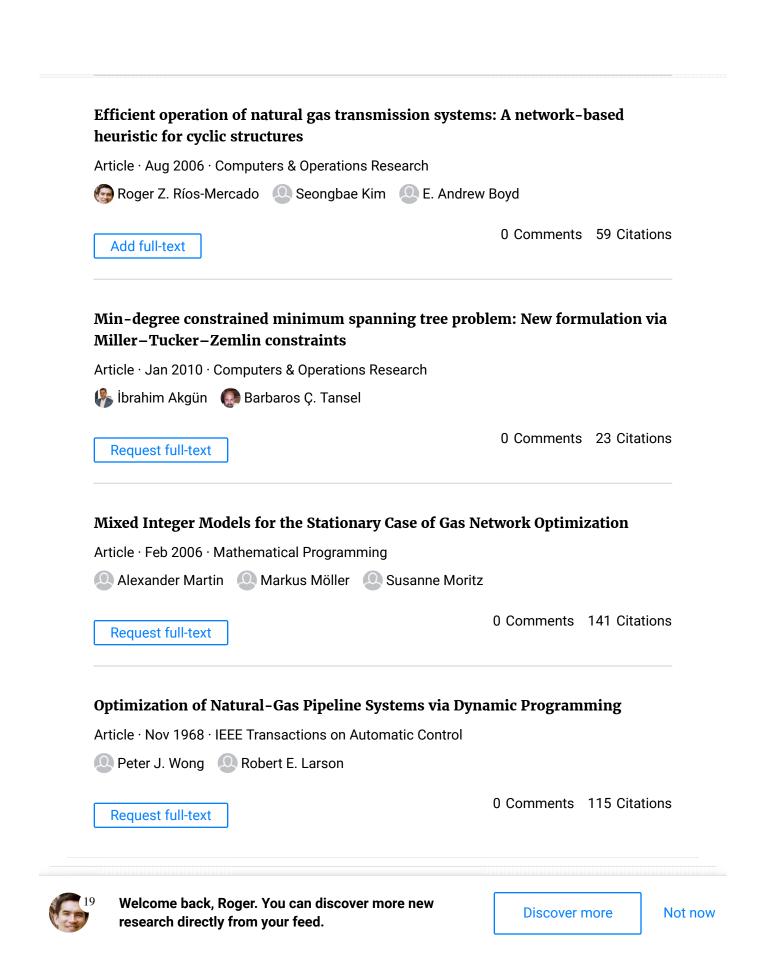
## Abstract

Here, we present an optimal gas network containing two layers (TBSs and consumer zones). An integrated mathematical program is proposed for optimizing the natural gas pipeline network. A mixed integer programming model is formulated to minimize the location-allocation costs in the network. Due to extent application of Minimum Spanning Tree (MST) technique in the network, we consider MST concept for the connectivity between TBSs. A case study in Mazandaran gas company in Iran is...

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