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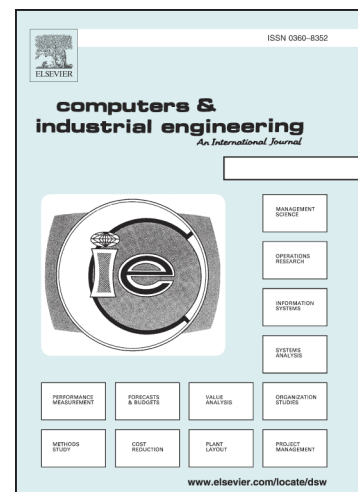
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An accelerated benders decomposition algorithm for reliable facility location problems in multi-echelon networks

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An accelerated benders decomposition algorithm for reliable facility location problems in multi-echelon networks

Abstract:

In this paper, we present an accelerated Benders decomposition algorithm for solving the multi-echelon reliable capacitated facility location problem (ME-RCFLP). The objective is a tradeoff between system reliability, and total investment and operational costs while the facilities can be “hardened” (Increase their capacity and decrease their probability of full and partial failure) with more cost. We allow the facilities to have different partial and full failure rates, and more than one facility may be assigned to a client (partial assignment). A new scenario-based

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