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# A GENERALIZED BENDERS DECOMPOSITION BASED ALGORITHM FOR AN INVENTORY LOCATION PROBLEM WITH STOCHASTIC INVENTORY CAPACITY CONSTRAINTS

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**HIGHLIGHTS**

- A strategic supply chain networks design problem with inventories is studied
- A novel decomposition approach is developed for the studied nonconvex problem
- The proposed Benders based decomposition ensures global optimality for the problem
- Global optimality is ensured based on subproblems with zero Duality Gap
- Computing times are competitive for medium real world size instances.

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