

## Accepted Manuscript

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

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PII: S0377-2217(17)31135-9  
DOI: [10.1016/j.ejor.2017.12.017](https://doi.org/10.1016/j.ejor.2017.12.017)  
Reference: EOR 14876



To appear in: *European Journal of Operational Research*

Received date: 22 June 2017  
Revised date: 5 December 2017  
Accepted date: 9 December 2017

Please cite this article as: Francisco J. Tapia-Ubeda , Pablo A. Miranda , Marco Macchi , A GENERALIZED BENDERS DECOMPOSITION BASED ALGORITHM FOR AN INVENTORY LOCATION PROBLEM WITH STOCHASTIC INVENTORY CAPACITY CONSTRAINTS, *European Journal of Operational Research* (2017), doi: [10.1016/j.ejor.2017.12.017](https://doi.org/10.1016/j.ejor.2017.12.017)

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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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