

## Accepted Manuscript

Sequential versus integrated optimization: production, location, inventory control, and distribution

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PII: S0377-2217(18)30049-3  
DOI: [10.1016/j.ejor.2018.01.028](https://doi.org/10.1016/j.ejor.2018.01.028)  
Reference: EOR 14929



To appear in: *European Journal of Operational Research*

Received date: 4 April 2017  
Revised date: 7 November 2017  
Accepted date: 12 January 2018

Please cite this article as: Maryam Darvish, Leandro C. Coelho, Sequential versus integrated optimization: production, location, inventory control, and distribution, *European Journal of Operational Research* (2018), doi: [10.1016/j.ejor.2018.01.028](https://doi.org/10.1016/j.ejor.2018.01.028)

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**Highlights**

- We study an integrated production, location, inventory, and distribution problem
- We introduce a formulation for this difficult and rich problem
- We propose several sequential procedures and a matheuristic
- We compare the results of all algorithms with those from the exact method
- We demonstrate the value of integrated decision making approach

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