

## Accepted Manuscript

A hybrid BA-VNS algorithm for coordinated serial-batching scheduling with deteriorating jobs, financial budget, and resource constraint in multiple manufacturers

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PII: S0305-0483(17)30813-7  
DOI: [10.1016/j.omega.2017.12.003](https://doi.org/10.1016/j.omega.2017.12.003)  
Reference: OME 1856

To appear in: *Omega*

Received date: 25 August 2017  
Revised date: 23 November 2017  
Accepted date: 7 December 2017

Please cite this article as: Jun Pei , Xinbao Liu , Wenjuan Fan , Panos M. Pardalos , Shaojun Lu , A hybrid BA-VNS algorithm for coordinated serial-batching scheduling with deteriorating jobs, financial budget, and resource constraint in multiple manufacturers, *Omega* (2017), doi: [10.1016/j.omega.2017.12.003](https://doi.org/10.1016/j.omega.2017.12.003)

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## Highlights

- The dual constraints of resource on financial budget and resource quantity are considered.
- Under the specific situation, some key structural properties are identified.
- For the general situation, an effective hybrid BA-VNS algorithm is proposed.

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