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Serial batching scheduling of deteriorating jobs in a two-stage supply chain to minimize the makespan

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PII: S0377-2217(14)00957-6
DOI: 10.1016/j.ejor.2014.11.034
Reference: EOR 12652

To appear in: *European Journal of Operational Research*

Received date: 12 April 2014
Accepted date: 20 November 2014

Please cite this article as: Jun Pei , Panos M. Pardalos , Xinbao Liu , Wenjuan Fan , Shanlin Yang , Serial batching scheduling of deteriorating jobs in a two-stage supply chain to minimize the makespan, *European Journal of Operational Research* (2014), doi: 10.1016/j.ejor.2014.11.034

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Highlights

(1) For the scheduling problem with a buffer, an optimal algorithm is developed for solving it.

(2) For the scheduling problem without buffer, some useful properties are derived.

(3) A heuristic is designed for solving it, and a novel lower bound is also derived.

(4) Two special cases are well analyzed, and two optimal algorithms are developed for solving them, respectively.

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