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Min–Max Regret Version of a Scheduling Problem with Outsourcing Decisions under Processing Time Uncertainty

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PII: S0377-2217(15)01185-6
DOI: 10.1016/j.ejor.2015.12.046
Reference: EOR 13437

To appear in: *European Journal of Operational Research*

Received date: 9 December 2014
Revised date: 4 December 2015
Accepted date: 22 December 2015

Please cite this article as: Byung-Cheon Choi, Kwanghun Chung, Min–Max Regret Version of a Scheduling Problem with Outsourcing Decisions under Processing Time Uncertainty, *European Journal of Operational Research* (2016), doi: 10.1016/j.ejor.2015.12.046

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Highlights

- We consider a single-machine scheduling problem with an outsourcing option.
- Processing times are uncertain and expressed as the set of scenarios.
- The objective is to minimize the maximum regret over all scenarios.
- We establish the computational complexity such as NP-hardness and FPTAS.
- We investigate several conditions under which the problem can be polynomial.

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