



Corrigendum

A savings index heuristic algorithm for flowshop scheduling with sequence-dependent setup times

SR Das¹, JND Gupta² and BM Khumawala³

¹George Mason University, Fairfax, VA, USA; ²The University of Alabama in Huntsville, Huntsville, AL, USA; and ³University of Houston, Houston, TX, USA

Journal of the Operational Research Society (2004) **55**, 1369. doi:10.1057/palgrave.jors.2601873

Correction to: *Journal of Operational Research Society* (1995) **46**, 1365–1373.

In the paper, ‘A savings index heuristic algorithm for flowshop scheduling with sequence-dependent setup times,’ by Das *et al.*,¹ the following corrections are necessary to make the algorithm, numerical example, and computational results consistent.

1. On page 1367 please replace Equation (2) and the paragraph before that as follows:

Potential savings in setup times: Let π be the set of all remaining k jobs still to be scheduled and e be the last job of partial schedule σ . Then, for any non-empty σ , it is clear that the potential savings in setup times at machine m , $R(\sigma a, m)$ can be expressed as follows:

$$R(\sigma a, m) = \max\{s_m(e, b); b \in \pi\} - s_m(e, a) \quad (2)$$

2. On page 1368, please change Steps 1 and 2 of the algorithm as follows:

Step 1. Consider each job a in π containing k jobs. Let e be the last job in partial schedule σ . Enter Step 2.

Step 2. Using Equations (2)–(5), find $SI(\sigma a)$ for each job $a \in \pi$. Augment job a with *maximum* $SI(a)$ to σ . Let $\sigma = \sigma a$, $\pi = \pi - \{a\}$, and $k = (k-1)$. If $k = 1$, enter Step 3; otherwise return to Step 1.

3. On page 1369, Table 3, block ‘At $m=2$ to job $j=$ ’, column 1, row 4, please change the entry from 207 to 407.
4. On page 1369, Table 5, the last column (for $SI(\sigma a)$) and row 2 (for job 3), please change the entry from 234 to 235.
5. On page 1369, replace the first part of line 6 after Table 5 with ‘two other schedules, (3, 2, 1, 4) and (4, 2, 3, 1), each with ...’.

The authors apologize for the above errors in the original paper and are thankful to Dr Fan T Tseng of the College of Administrative Science, University of Alabama in Huntsville, Huntsville, AL, USA for discovering these errors and bringing them to our attention.

References

- 1 Das SR, Gupta JND and Khumawala BM (1995). A savings index heuristic algorithm for flowshop scheduling with sequence dependent setup times. *J Opl Res Soc* **46**: 1365–1373.