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Efficiency evaluation based on data envelopment analysis in the big data context

Qingyuan Zhu , Jie Wu , Malin Song

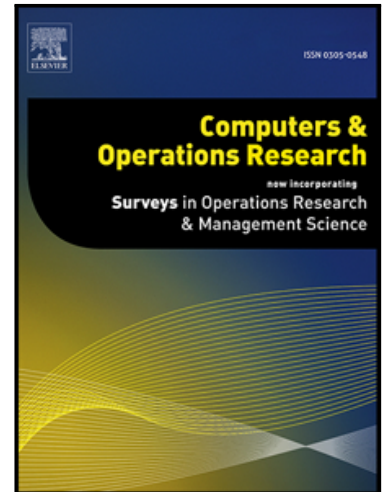
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Highlights

- Novel algorithms are proposed to accelerate the computation process in the big data environment.
- An easy algorithm is developed to divide the large scale DMUs into small scale and identify all strongly efficient DMUs.
- We only need to select two reference points as the sample in the situation of just one input and one output.
- A variant of the algorithm is then presented to handle cases with multiple inputs or multiple outputs.

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