Slacks-based performance measurement with undesirable outputs using the Russell measure based directional distance function approach

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Abstract

Following the spirit of SBM and the Russell measure, the current paper provides two alternative methods for dealing with desirable and undesirable outputs in DEA. The new methods are analogous to the directional output distance function approach in that they also allow the expansion of desirable outputs and the contraction of undesirable outputs, but dominates the traditional approach since it can identify all the inefficiency slacks.

Keyword：slacks-based model, directional distance function, undesirable output, Russell measure