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Disaggregation of the Cost Malmquist Productivity Index with joint and output-specific inputs

Barnabé Walheer

PII: S0305-0483(16)30036-6
DOI: 10.1016/j.omega.2017.01.012
Reference: OME 1754

To appear in: *Omega*

Received date: 20 March 2016
Revised date: 9 January 2017
Accepted date: 17 January 2017

Please cite this article as: Barnabé Walheer, Disaggregation of the Cost Malmquist Productivity Index with joint and output-specific inputs, *Omega* (2017), doi: 10.1016/j.omega.2017.01.012

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Highlights

- We propose a new cost Malmquist productivity index (CMPI) in multi-output settings with joint and output-specific inputs.
- Our new CMPI is nonparametric (i.e. not based on unverifiable assumptions on the production process).
- We define output-specific CMPIs and show how to disaggregate the CMPI in terms of output-specific cost efficiency measurements.
- We show how to deal with partial input price information and without assuming observation of the input prices.
- We establish a duality with a technical productivity index when no price data are available.

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