## **Accepted Manuscript**

An improved Afriat-Diewert-Parkan nonparametric production function estimator

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PII: \$0377-2217(17)30700-2 DOI: 10.1016/j.ejor.2017.07.057

Reference: EOR 14607

To appear in: European Journal of Operational Research

Received date: 4 July 2016 Revised date: 18 July 2017 Accepted date: 25 July 2017



Please cite this article as: O.B. Olesen, J. Ruggiero, An improved Afriat-Diewert-Parkan non-parametric production function estimator, *European Journal of Operational Research* (2017), doi: 10.1016/j.ejor.2017.07.057

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#### ACCEPTED MANUSCRIPT

### Highlights

- Existing nonparametric frontier estimators tend to overfit data in the presence of moderate noise
- We propose new estimators with less overfitting
- Small sample properties of these estimators are provided in a Monte Carlo Simulation
- The simulation illustrates when the new estimators outperform the existing estimator

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