Performance Efficiency of Turkish Manufacturing SMEs using DEA

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Abstract

This study aims to measure and evaluate the performance efficiency of manufacturing SMEs in Turkey. For this purpose, 980 manufacturing companies from 18 different sectors are examined. Sectors are classified regarding their NACE codes which are provided by KOSGEB, Turkish Small and Medium Enterprises Development Organization. Data Envelopment Analysis is applied for a set of input and output performance measures which are critical for the manufacturing companies. The industry based efficiency evaluation provide management with information regarding the relatively best practice sectors in the observation sets and locate the relatively inefficient sectors by comparison with the best practice ones.

Keywords
Performance efficiency, manufacturing industry, SMEs, DEA