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中国省际全要素生产率的空间差异与变动趋势

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Spatial difference and change trend of provincial TFP in China

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摘要 本文采用DEA三阶段模型和Malmquist指数分解方法,对中国1987-2008年28个省市的全要素生产率进行测度和分解,分析了全要素生产率的空间差异和变动趋势,并利用Kernel密度分布法进行了要素投入和全要素生产率的经济差距效应分析。结果表明,环境因素确实对效率测度存在较大影响,DEA三阶段模型增强了效率评价的科学性和省市间的可比性;技术效率是影响全要素生产率变动的主要因素,全要素生产率的变动存在较大的空间差异,但呈缩小趋势;要素的空间均匀分布对缩小中国区域经济差距起到较大的贡献。

关键词: 全要素生产率 DEA三阶段模型 Malmquist指数 区域经济差距

Abstract: Using DEA three-stage model and Malmquist index decomposition method, The Total Factor Productivity (TFP) of 28 provinces and cities in China during the period of 1987-2008 are measured and decomposed, the change trends and regional differences of TFP are also analyzed. At the same time, Kernel density distribution method is used to analyze the effects of input factors and TFP on regional economic gap. The results show that environmental factors have a great effect on the measurement of efficiency; therefore DEA three-stage model enhances scientificness of efficiency evaluation and comparability between the provinces. Technical efficiency is the main factor impacting TFP change, and spatial difference of TFP change is quite large, however the difference shows a narrowing trend. Evenly spatial distribution of input factors makes a greater contribution to narrow China's regional economic gap.

Keywords: TFP DEA three-stage model Malmquist index regional economic gap

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