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国际贸易、FDI与技术效率和技术进步

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International trade, FDI, and technical efficiency and technological progress

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摘要 本文基于DEA的非参数方法测算了Malmquist生产率指数,并通过对其分解,计算出了东部、中部和西部地区的技术效率指数和技术进步指数,发现1987年以来,东部地区的全要素生产率增长主要是依赖技术进步,技术效率对全要素生产率增长的贡献较小,而中西部地区的全要素生产率增长主要是依赖技术效率的提高。然后从国际贸易和FDI的视角,利用省级动态面板数据实证研究发现主要是由于东部地区进出口贸易和FDI促进了技术效率和技术进步,对技术进步的影响系数大于对技术效率的影响系数,而中西部地区的进出口贸易和FDI促进了技术效率,抑制了技术进步。

关键词: 国际贸易 外商直接投资 技术效率 技术进步

Abstract: Based on the DEA non-parameter method the Malmquist productivity index is surveyed, and through its decomposition, the technology efficiency index and the technology advancement index of eastern area, central area as well as western area are calculated, it is found that eastern area's total factor productivity growth is mainly dependent on technological progress, the contribution of technical efficiency to the total factor productivity growth is smaller; the central and western area's total factor productivity growth are mainly dependent on the improvement of technical efficiency since 1987, then from the international trade and FDI's angle of view, the provincial dynamic panel data are used for the empirical research, it is found that the eastern area's import-export trade and FDI mainly promote the technical efficiency and the technology advancement, influence coefficient due to technology advancement is bigger than the influence coefficient due to technical efficiency, however the central and western area's import-export trade and FDI promoted the technical efficiency, and suppress the technology advancement, simultaneously.

Keywords: international trade FDI technical efficiency technological progress

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