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大型企业技术进步推动自主创新的实证研究

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The technical progress driving independent innovation in large-scale enterprise China

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摘要 技术进步是我国大型企业自主创新的重要动力之一。为了分析我国大型企业技术进步对自主创新的推动作用,运用DEA-malmquist指数法及Granger因果检验法对其进行实证检验及分析。结果表明:整体上我国大型企业技术进步推动自主创新,但是,对各行业的作用因技术水平提高及技术效率改善的差别而存在差异,技术进步对自主创新的推动是技术水平提高及技术效率改善综合作用的结果,最后从技术进步路径选择的角度,分别针对企业和行业层面提出了有针对性的建议。

关键词: 大型企业 自主创新 malmquist生产率指数 DEA Granger因果检验

Abstract: Technical progress is one of the crucial impulses of independent innovation for Chinese large-scale enterprises. In order to analyze the impact of Chinese large-scale enterprise's technical progress on independent innovation, both DEA-Malmquist index methods and Granger causality test are used to conduct empirical research and analysis. The results show as follows: Overall, the technical progress of Chinese large-scale enterprise directly promotes independent innovation. However, there are differences among different industries due to differences in technology-level changes and technology-efficiency changes. The technical progress driving independent innovation is a combined result of technology-level promotion and technology-efficiency improvement. Finally, from the angle of path selection of technical progress, the suggestions to the enterprises and industries are put forward.

Keywords: large-scale enterprise independent innovation Malmquist productivity index DEA Granger causality test

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