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我国高新技术企业技术创新模式选择研究—基于演化博弈的视角

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The technological innovation mode selection of Chinese new and high-tech enterprises based on evolutionary game

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摘要 为研究高新技术企业的技术创新模式选择行为的内在决策机理,借助演化经济学研究工具,构建了高新技术企业技术创新模式选择的博弈模型,并对策略选择进行了演化动态稳定性分析,用数值仿真演示了决策参数的不同取值和初始条件的改变对演化结果的影响。结果表明:高新技术企业技术创新模式选择演化系统收敛于两种模式,一种为理想状态,一种为不良“锁定”状态;通过调节参数可以跳出不良“锁定”状态,诱导企业朝着期望的方向演化。

关键词: [高新技术企业](#) [技术创新模式](#) [演化博弈](#)

Abstract: In order to investigate the inner mechanism of technological innovation mode selection for new and high-tech enterprises, a game model of new and high-tech enterprises' technological innovation mode selection is constructed and the evolution dynamic stability of strategy selection is analyzed with the help of evolutionary economics. Through a numerical simulation, it shows the impact of different decision parameters and initial conditions on the results evolution. The conclusions reveal that the evolution system of technological innovation mode selection for new and high-tech enterprises converges to two types of patterns; one is ideal status, while the other is a poor "lock in" status. By adjusting the decision parameters, it makes enterprises be free from the poor "lock in" condition and lead them to evolve towards an expected direction.

Keywords: [new and high-tech enterprise](#) [technological innovation mode](#) [evolutionary game](#)

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