科研管理
SCIENCE RESEARCH MANAGEMENT
ISSN 1000-2995
CN 11-1567/G3
主办 中国科学院科技政策与管理科学研究所
中国科学学与科技政策研究会
清华大学技术创新研究中心

科研管理 2013, Vol. Issue (4) :9-15,59 论文 DOI:

中国高技术产业技术创新系统协同发展实证分析——以航空航天器制造业为例

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The synergetic development of technological innovation system in high-tech industries-takingChinese manufacture of aircrafts and spacecrafts as an example

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摘要 技术创新系统可分为产品创新系统和工艺创新系统。基于二象对偶理论,将产品创新(工艺创新)系统设计为由以创新绩效为表征的状态子系统和以创新资源协同为度量方法的行为子系统构成的二象系统。分析了技术创新系统子系统的二象特征,构建了技术创新系统协同度模型,采用1995-2008年航空航天器制造业科技活动数据,对航空航天器制造业技术创新系统进行协同度测量及分析。结果表明,我国航空航天器制造业技术创新系统协同发展水平总体不高。其中,提升工艺创新资源协同水平将成为未来航空航天器制造业技术创新系统协调发展的重要任务。

关键词： 技术创新 协同度 实证

Abstract： Technological innovation system could be divided into two subsystems, namely, product innovation system and process innovation system. Based on the dual paired theory, a product innovation system (or process innovation system) is divided into state subsystem which is characterized by product innovation performance and behavior subsystem which is measured by resource synergy. The dual characteristics of the innovation systems are analyzed. Based on the theoretical analysis, a system synergetic degree model for the technological innovation is established. Then, the data of technology activities in aircrafts and spacecrafts manufacture from the years of 1995 to 2008 is used to measure the synergetic degree of technological innovation in the industry. The results show that technological

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innovation system of aircraft and spacecraft manufacture has a relative low synergetic development level as whole. Furthermore, increasing synergetic level of process innovation resource will become an important task in the future.

Keywords： technological innovation synergetic degree empirical study

Received 2011-04-08;

Fund:航空基金项目(2009ZG52065)"航空工业企业军民品业务协同发展机制研究"(2010.01-2011.12);国家社会科学基金项目(10BGL066)"低碳城市建设投融资机制研究"(2010.07-2013.04);山东科技发展计划项目(2009GG10010003)"基于科学发展观的山东省产业集群升级优化战略与融资对策研究"(2009.09-2011.12)。

引用本文:

贾军, 张卓, 张伟.中国高技术产业技术创新系统协同发展实证分析——以航空航天器制造业为例[J] 科研管理, 2013,V(4): 9-15,59

Jia Jun, Zhang Zhuo, Zhang Wei.The synergetic development of technological innovation system in high-tech industries-takingChinese manufacture of aircrafts and spacecrafts as an example[J] Science Research Management, 2013,V(4): 9-15,59