29th IAA SYMPOSIUM ON SPACE AND SOCIETY (E5) Is Space R&D Truly Fostering A Better World For Our Future? (2)

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SPACE DEVELOPMENTS AND TECHNICAL INNOVATIONEMPIRICAL ANALYSIS BASED ON PROVINCIAL PANEL DATA OF CHINA

Abstract

Space activities make up one of the most challenging hi-tech fields which exert enormous impact on other fields. Space activities have provide an important driving force for technical progress and innovation. On one hand, the aerospace development could drive the development of fundamental research greatly, thus laying solid foundation for the promotion of overall ability of technical innovation; on the other hand, the aerospace development could directly drive the technical innovation in materials, electronics, machinery and other industries. Over the past 61 years of remarkable development since its space industry was established in 1956, China has made great achievements in this sphere, including the development of the Shenzhou spacecraft, the Beidou satellite navigation system and lunar probe. These remarkable achievements have greatly driven the innovation and development in the relevant fields. This paper focus on the relationship between space development and technological innovation. On the basis of Griliches-Jaffe Knowledge Production Function, the research conducts the empirical analysis with the Chinese provincial panel data against aerospace development's impact on regional technological innovation performance. At last, we give suggestion according to the research conclusion.