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Abstract

Authors have applied the Analytic Hierarchy Process Model (AHP) to evaluate of Science Popularization of Provincial and Local level Science and Technology Association (STA) in China. Science Popularization plays an increasingly important role in social development, a large number of scholars of science conducted intensive studies and has achieved fruitful results, which have practical significance.

We concluded that there is a gap among western, central and western regions of China and among it, eastern region is higher than the western. Meanwhile, we applied non-parametric test to examine the factors affecting the science popularization. Since the data processing involves weighting and in order to avoid the results are affected by dimensionless, the raw data were normalized by Mahalanobis distance. Results based on using the analytic hierarchy process to evaluate the country 32 provinces, municipalities, provincial and local level Science Association popularization. The results show that GDP, the import and export trade, the willingness to learn and the level of education have significant positive impact on both Provincial and Local level Science and Technology Association. But on the other hand the inter-provincial study and research investment have only significant positive impact on the Local level, not on the provincial. Additionally, the interprovincial competitions have effect on to both levels of STA.

The conclusions have recommended to be applied to improve the Science Popularization of both levels STA theoretically and practically and results and implications with analysis tools can be further extended in different developing countries. This study has introduce the analytic hierarchy process for the evaluation of science popularization procedure, it validate the feasibility of the model for science assessment work, and provides a novel proposal for the construction of the future of science assessment approach. Meanwhile, the paper also empirically analyzes the factors affecting science popularization work.

Keywords: Provincial and Local Level Science and Technology Association; Evaluation of Science Popularization; Analytic Hierarchy Process Model (AHP); Science and Technology Association (STA).