

摘要

辽宁省作为东北老工业基地的门面，研究辽宁省居民消费结构对于带动整个东北的经济发展都有重要作用，因此本文特对辽宁省 2008-2016 年城镇居民消费结构进行了详细研究。

本文以分析辽宁省城镇居民消费情况为切入点，首先对这九年的居民各项消费支出情况进行 Pearson 相关分析，对各消费支出项之间的相关关系进行分析，判断是否存在多重线性关系。接着基于主成分回归分析，利用提取的主成分消除各消费支出项的多重线性关系并建立与总支出的回归方程，分析各支出项与总支出的线性关系，找出影响居民总支出的主要因素。接着基于 ELES 模型对辽宁省城镇居民消费现状进行深入研究，分析影响居民消费现状的因素。接着基于 ARIMA 模型建立辽宁省城镇居民总支出的预测模型并对 2017-2024 年辽宁省城镇居民总支出情况进行预测。最后根据 ELES 模型的分析内容对辽宁的城镇居民消费结构的升级优化提出相应的合理建议。研究结果表明近年来辽宁省城的镇居民消费支出有明显提高，消费结构也在逐渐转型，目前住房和交通通讯成为辽宁省城镇居民的主要消费点，另外居民消费结构也受收入和价格的影响，所以这就需要今后国家政府制定一定有效的政策来刺激居民消费。

关键词：城镇居民消费；Pearson 相关分析；主成分回归分析；ELES 模型；ARIMA 模型

ABSTRACT

Liaoning province is one of the three northeastern provinces .The study of its consumption structure plays an important role in promoting the economic development of the whole northeast China.For this reason, this article conducted a detailed study of the consumption patterns of urban residents in Liaoning Province from 2008 to 2016.

This paper studies the consumption structure of urban residents in Liaoning province. First, based on the principal component regression analysis, the extracted principal components are used to eliminate the multiple linear relationships between each consumer expenditure item and establish a regression equation with total expenditure, analyze the linear relationship between each expenditure item and total expenditure, and find out the main factors that affect the total expenditure of residents . Then, based on the ELES model, I did an in-depth study of the current situation with the consumption of city dwellers in the province of Liaoning and analyzed the factors that influence the consumption status of the residents. Then, based on the ARIMA model, the prediction model of the total expenditure of urban residents in Liaoning province was established and the 2020-2024 total expenditure of urban residents in Liaoning province was predicted Based on the results of the analysis of the ELES model, sensible proposals for the modernization and optimization of the consumption structure of the urban residents in the province of Liaoning are finally made. At present, housing and transportation have become a hot spot for urban residents in Liaoning Province, so this requires the government to formulate certain effective policies in the future to stimulate guidance Resident consumption.

Key words: consumption structure; Pearson correlation analysis; Principal component regression analysis; ELES model; ARIMA model

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