

Analysis of Coordination and Spatial Evolution between Digital Economy and Tourism Economy in China's Coastal Provinces

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Introduction

Tourism economy, as a significant component of the national economy, plays a crucial role in driving economic growth, extending industrial chains, increasing social employment, and promoting international exchanges and cooperation. According to the "World Tourism Economic Trends Report", in 2023, global tourism arrivals reached 12.673 billion, a year-on-year increase of 41.6%, while global tourism revenue amounted to \$5.54 trillion, accounting for over 5.5% of global GDP, with a year-on-year growth of 21.5%.

Research Design

1) Data Sources and Processing

This paper selects 11 coastal provinces and municipalities in China as the research sample. The data primarily come from the Statistical Yearbooks of each province/municipality (2011-2023), Tourism Statistical Yearbooks, and Statistical Bulletins on National Economic and Social Development of the respective regions.

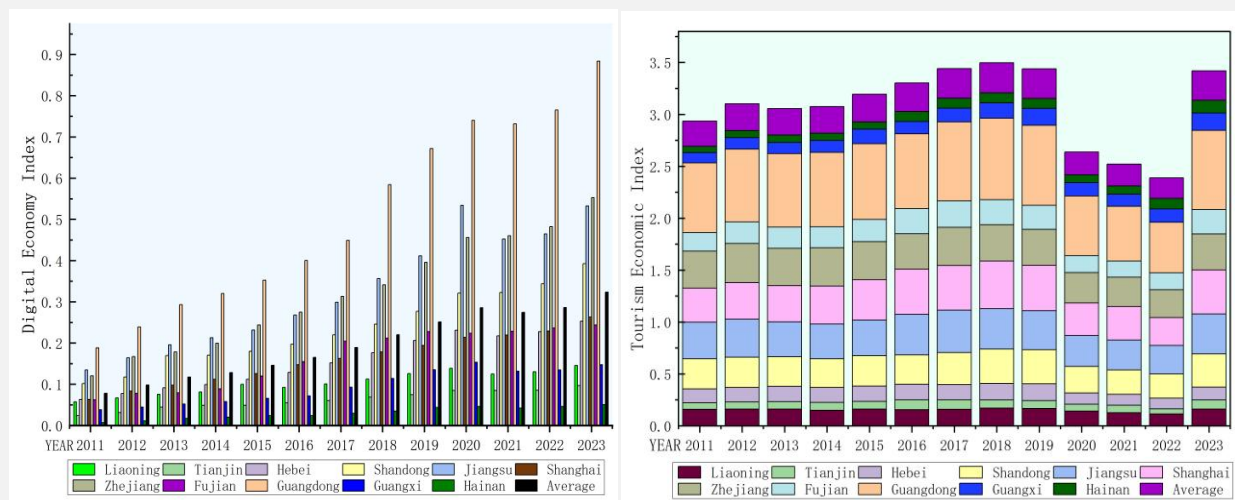
2) Construction of Indicator System and Data Description

Both the digital economy and tourism economy are comprehensive economic systems. Relying solely on a single indicator for measurement would compromise accuracy; thus, a multi-dimensional evaluation framework is necessary. Based on existing academic research and adhering to the principles of comprehensiveness, scientific rigor, and operability, this study constructs a comprehensive evaluation system for the digital economy and tourism economy from multiple dimensions.

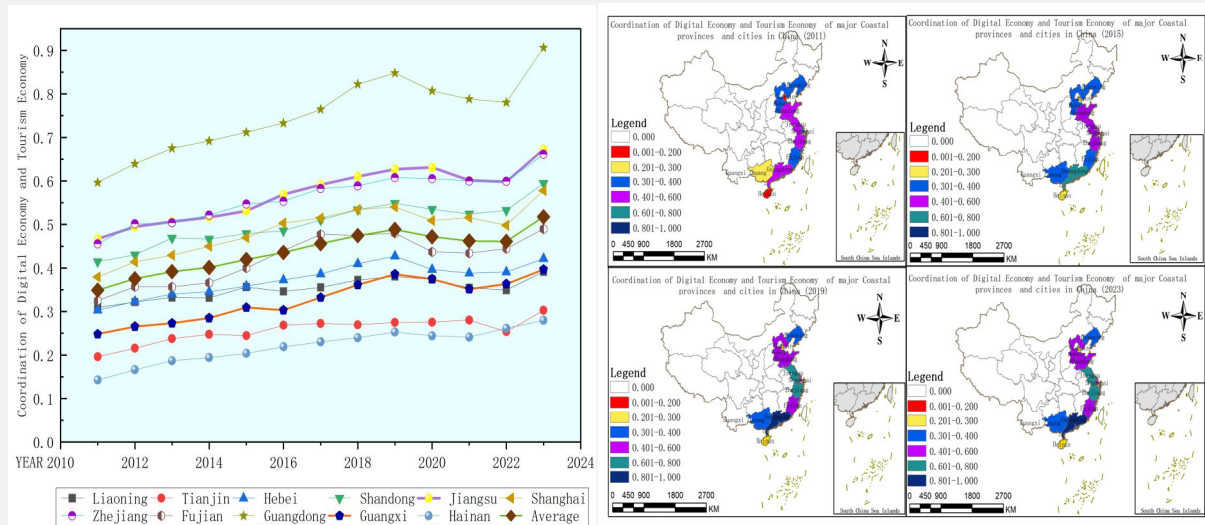
Empirical Analysis

- 1) Space-time analysis of the development level of digital economy
- 2) Space-time analysis of tourism economic level
- 3) Space-time evolution analysis of coordination between digital economy and tourism economy

Figures



Figures



Research Conclusion

First, during the study period, the level of digital economy and tourism economy both showed an upward trend, but the overall level was relatively large, and inter-provincial polarization was serious. Among them, in terms of the level of digital economy, the average annual growth rate of digital economy is about 3%. However, the overall coordination level is low, and the inter-provincial differences are large.

Second, the coordination of digital economy and tourism economy in coastal provinces and cities shows a slow rise, showing a spatial distribution pattern of "high in the east, low in the south and low in the north". In terms of time, from 2011 to 2019, the coordination of digital economy and tourism economy showed a slow growth trend, with an average annual growth rate of about 5%.