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THE COUPLING AND COORDINATION BETWEEN DIGITAL ECONOMY AND GREEN ECONOMY IN THE YANGTZE RIVER DELTA

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Abstract

Understanding the relationship between the digital economy and the green economy is essential for crafting effective policies aimed at sustainable development. Using panel data of 41 cities in the Yangtze River Delta (YRD) spanning from 2011 to 2021, this paper employs spatial autocorrelation, kernel density estimation, and the Dagum Gini index to investigate the spatiotemporal dynamics of coupling and coordination between the digital economy and the green economy. The results reveal an increasing coupling and coordination degree (CCD) in the YRD, accompanied by a substantial spatial correlation. Moreover, the differentiation level of the coordinated development between the digital economy and the green economy in the YRD is gradually improving. The overall regional disparities exhibit a fluctuating downward trend, with inter-regional differences serving as the primary driver of these disparities. Based on these findings, this paper offers valuable insights and policy recommendations to enhance and balance the development of coupling and coordination between the digital economy and the green economy.

Key words: coordinated development, digitalization, green economy, the Yangtze River Delta

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