Study on spatial correlation mechanism of industries between different major functional areas based on grey target theory

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It is an important measure for China to implement the strategy of major functional area to promote the optimization and upgrading of the industry and the development of regional integration. Spatial correlation mechanism analysis of the major functional area’s industries is significant to achieve complementary of industrial advantages, allocation of resources and coordinated development of cross-regional industries. In order to study spatial correlation structure between optimization development zone and key development zone, the paper chooses Beijing-Tianjin-Hebei Metropolitan Region and Ha-Chang City Group as examples. Based on cross regional input-output table and social network analysis method, regional industrial spatial correlation network model is established. By analyzing the characteristics of network structure and the function of block, industrial spatial correlation structure between optimization development zone and key development zone is studied. Furthermore, with the grey target contribution analysis method, the major causes of the formation of the industrial spatial correlation structure are discussed from the characteristics of the industry in the spatial correlation network.