

Spatial differentiation and influencing factors of attended collection and delivery points in Nanjing city, China

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Abstract - E-commerce and online shopping have become more convenient due to the rapid growth of the internet logistic industry in many developed countries and are particularly popular and suitable in China. The method is primarily based on logistic points like attended collection and delivery points (ACDPs), an emerging industry for economic development. This article includes descriptive statistics, and spatial analysis to analyse the location distribution, and influencing factors of ACDPs in Nanjing City using point of interest data (POI) of Cainiao stations and China Post stations. The results show that the spatial distribution of ACDPs in Nanjing is asymmetrical, displaying a trend to the northwest direction and a difference in the trend between the S-W and N-E axes. Their layout creates four main core areas and the number of sites decreases with distance from the core. Most of the ACDPs are in urban areas and on residential and industrial land. This study provides insightful ideas for decision-makers and planners to help formulate policies that can lead to more sustainable logistic enterprises development and for the companies that want to establish successful CDP networks in big cities.

Keywords: Attended collection and delivery points; China Post stations; Cainiao stations; spatial pattern; influencing factors; Nanjing City