

Analysis of the Factors Affecting the Public Bicycle Projects in Chinese Cities

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Abstract : There are many purported benefits of public bike systems, therefore, it has seen a sharp increase since 2008 in Hangzhou, China. However, there are few studies on the public bicycle system in Chinese cities. In order to make recommendations for the development of public bicycle systems, this paper analyzes the influencing factors by using the system dynamics method according to the main characteristics of Chinese cities. The main characteristics of Chinese cities lie in the city size and process of urbanization, traffic mode division, demographic characteristics, bicycle infrastructure and right of way, regime structure. Finally, under the context of Chinese bike sharing systems, these analyses results can help to design some feasible strategies for the planner to the development of the public bicycles.

Keywords : engineering of communication and transportation system, bicycle, public bike, characteristics of Chinese cities, system dynamics

Conference Title : ICITS 2019 : International Conference on Intelligent Transportation Systems

Conference Location : New York, United States

Conference Dates : June 04-05, 2019