

## **ABSTRACT**

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Title : Determination Analysis of New Dockless Bikeshare  
Stations Location in Dukuh Atas Transit Oriented  
Development

The placement location of the bikeshare mooring point is an important thing that needs to be considered in its planning. The city of Jakarta has implemented a trial of a dockless bikeshare system along the Bundaran HI – Bundaran Senayan corridor, the Dukuh Atas Transit Oriented Development area is also included in it. This mode of transportation can support the development of transit areas and become one of the solutions to overcome congestion. But unfortunately, the existing placement location of the mooring point is still not suitable and the range is ineffective. This makes the interest of potential users decrease and bikeshare becomes unattractive in the community. Therefore, this study aims to be able to determine the distribution of effective bikeshare mooring point locations.

In effort to achieve the objectives, this study uses quantitative descriptive analysis approach. Initial information and influential factor synthesis are carried out by open interview and reviewing the literature, the factors that have been obtained from the answers of expert respondents are then determined for priority with the Analytical Hierarchy Process, and then processed in mapping with Weighted Overlay and Network Analysis with Route Analysis and Location Allocation features.

The entire process of the analysis has succeeded in producing 7 influential factors in determining the location of the bikeshare mooring point, with the proximity of the location and the density of land use being the most important factors. This study also produced maps of the effective suitable distribution area and location of the bikeshare mooring point with consideration of these seven factors. The government and operators should not just focus on regulatory issues but should also pay attention to all these factors.

**Keywords :** *bikeshare station, dockless bikeshare, location allocation location determination, network analysis*