

Shape and Layout of the Monuments in the Station Square

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The station space is an important place to show the size and culture of the city as the gateway to the city. In this study, we grasp the elements that make up the environment around the station and its surroundings. One of the main elements in a station space is the station square monument. The purpose of this study is to extract the image of the station space and the town by psychological analysis of the monument shape and installation position. There have been studies about the characteristics and its position and composition of monument installations, but few studies have clearly discussed evaluations and criteria that match the image of the town.

The research method extracts the elements of the target station monument and the surrounding environment, and classifies the station monuments on the target railway line using these. To grasp the relationship between the station square monument selected from the classification and its installation environment, grasp the shape of the station square monument. Furthermore, an impression evaluation experiment is performed on the monument in front of the station, and the correlation between the result and the physical quantity of the landscape element is calculated.

In this study, objects called outdoor sculptures and public art are defined monuments. The target routes are JR lines and Hankyu lines of Osaka. The monuments were classified by cluster analysis based on the three axes extracted from principal component analysis. Based the result, detailed analysis was performed on the stations where the expression items were abstract and the elements of the monuments and the elements of the surrounding environment were strongly linked.

A questionnaire using the SD method was conducted to ascertain the difference in monument impression evaluation for the selected station square. The factors extracted by the factor analysis were taken as comfort, intimacy, order, and sophistication, and factor scores for each station were calculated. As a result of analyzing the relationship between this value and the shape of the monument, a three-stage impression evaluation was found for the relationship between the monument and the background. In a monument where the viewing distance is small, the affinity of the monument becomes smaller as the height of the monument becomes smaller. It became clear that the larger the monument, the greater the extraordinariness when it was large.

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