

Historical Landscape in Nara as Historical City

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Beautiful landscapes unified with historical buildings and natural environment are existent in Japan. In recent years, the management of historical space is shifting from protection to conservation or restoration since the enactment of the Landscape Act and the Act on Maintenance and Improvement of Historic Scenic Beauty. A lot of historical buildings, temples and shrines have been left in Nara. Besides, geo-information technology is spreading rapidly in the sophisticated information society. The using of GIS become close to us. It is used analysis historical landscape and design. In this study, the authors direct their attention to the scenic sites are drawn in historic scenic picture. On the historic scenic pictures, not only landscape of Edo period but also urban structure and people are drawn. In other words, we can understand urban landscape of the time by understanding historic scenic pictures. Therefore, the purpose of this study is to understand landscape transition by the constructing of 3-dimensional restoration model based on the historical materials. In this study, the authors use Nanto meisho shu (Collection of beauty spots in Nanto) and Yamato meisho zue (Collection of beauty spots in Yamato). First, the authors put the scenic sites drawn in historic scenic pictures on map. They construct spatial data on GIS by using historic scenic pictures and old edition of topographic maps. And they understand urban transition by using the constructed database. Finally, they have done cityscape simulation by using CAD/CG. The restoration model in Edo period has been created based on the database of GIS. Modern urban model has been created by 3-dimensional urban model based on the aerial photos taken by the oblique aerial camera. The authors found the greatly changed area in Nara city by cityscape simulation. As a result, they could grasp the urban transition including cityscape from the Edo period to modern time.

Keywords: Nara as a historical city, urban transition, restoration