Space Syntax and Mobile GIS Application: Investigation of Relationship between Human Walking Pattern and Spatial Configuration

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The process of how people recognize spatial configurations and use them is an important subject for understanding of human walking pattern. Understanding of human walking pattern play a vital role in pedestrian pathway design and city street network design. In this context this study is to investigate the relationship between Mobile GIS is a newly introduced method that facilitate to collect much reliable and accurate data instead of conventional methods and space syntax enables the advance analysis in relation to space.

In this study first actual human walking pattern were captured by using Mobile GIS application. Then spatial configuration and visibility of the study area were analyzed by using UCL Depth map software.

Then visual analysis and spatial correlation were employed to identify the relationship between human walking pattern and spatial configuration. Results indicates that human walking pattern has significant correlation with spatial configuration (78%) and visibility of the space (62%).

Keywords: Human Walking Pattern, Spatial Configuration, Visibility, Mobile GIS

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