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Role Of Built Fabric In Enhancing The Natural Surveillance In Neighbourhood Public Spaces

Surveillance is an important factor in making the place safe and healthy. Life of an environment has several influences from surveillance. This paper is aimed to understand the relationship between built fabric and natural surveillance of a neighborhood space. A neighbourhood public space with a spatial configuration in Trivandrum district of Kerala was selected as the study area. Prashanth nagar is one of the oldest planned neighborhoods in Kerala and we can see the evolution of the built spaces over time. We can see the compact urban spaces for the community, wide range of ecology and architecture. Isovist analysis method was used to create the viewshed or Isovist area to evaluate the visual influence in the public space. Correlational research method is used to evaluate natural surveillance from a built fabric and safety and security in neighborhood public spaces. The analysis includes the viewshed created from the entrance of the buildings (doors), other spaces include windows and balconies that would be opened towards the public space and the streets. The results show the visible paths from the urban fabric and how it can influence the natural surveillance in the public space.

Keywords: *Built fabric, neighborhood public space, visual Influence, Isovist, visibility analysis, natural surveillance, built form*