Result Analysis on Planning and Evaluating Road Network Configuration in Urban Context

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Abstract: *One of the biggest issues with urban mobility is traffic congestion. Particularly in areas near junctions, it has been rising. Numerous techniques have been devised to alleviate traffic jams. Social network analysis (SNA) is one of the analysis techniques. The ability to swiftly locate the most important intersections in transportation networks has led to an increase in the use of this technique. Enhancements to the principal intersections within a road network structure expedite the movement of traffic throughout the network. The Istanbul highway transport network has been analysed in this study, and the SNA has been used to compute values for a number of network centrality metrics. A machine learning approach was used to compare the centrality values' accuracy and error scales*

Keywords: Central Intersections, Machine Learning, Transportation Planning, Urban Transportation.