

Planning and Evaluating Road Network Configuration in Urban Context: An Analytical Study

Vivek Raj¹ and Raushan Kumar²

Research Scholar, Department of Civil Engineering¹
Assistant Professor, Department of Civil Engineering²
Eklavya University, Damoh M.P, India

Abstract: *It is essential to consider supply disparities in the urban road network when developing an equitable and sustainable urban growth model for cities. In order to lead the optimisation and correction of the urban road network, this research proposes to apply the notion of fractal analysis to an assessment of the layout and internal structure characteristics. This is significant because it encourages sustainable urban development, optimises the use of geographical space, and directs the use of urban land. The objective of this project is to establish evaluation standards for residential area road networks. To do this, a review of earlier studies on road network evaluation standards, neighbourhood road network designs, and urban plan paradigms is done.*

Keywords: Road Networks, Evaluation Criteria, Eco-Friendly Transportation Network, Residential Area