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### A GIS Based Traffic Congestion Evaluation For Coimbatore City

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**Abstract :** The emergence of traffic and subsequently traffic congestion in urban road networks are increasing worldwide with the growing number of vehicles, which results in excess delays, and reduced safety. The aim of this paper is to use many GIS functions (network analyst, Overlay Analysis, Kernel Density) to evaluate the spots of traffic congestions during working hours and day. The study area selected is Coimbatore in the state of Tamil Nadu. The results are utilized in evaluating congestion spots and diverting the traffic to newly suggested roads to reduce the congestion.

**Keywords :** GIS, Traffic congestion, Network analyst, Overlay Analysis, Kernel Density.

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