Abstract

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GIS Tools to Analyze the Public Bus Transit Service Network, Case Study: The City of Alexandria.

An attempt is made to utilize the powerful functions of Geographic Information System to develop built-in tools capable of facilitating the assessment of any offered bus transit service network. These tools can be outlined briefly in the following: - Separating the offered service to individual district and allocate the intersections with its domain as IN's and OUT's. - Evaluating the total number of intersections along a roadway as a function of its total length - Viewing the distribution of bus flow for any roadway throughout its different links comprising it. - Allocating the bus density distribution along the entire covered length of the offered bus transit network.