

Considerations on reducing fuel consumption and emissions by optimizing traffic control in congested urban areas

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Abstract

The balance between city development, as, for example, an increasing number of working places and emissions control, is a challenge in our days in the urban environment. All new developments in the urban area, either commercial, office or residential, will generate a specific demand for mobility. This new demand will put supplementary pressure on the urban transport system in the influence area. Therefore, approaching it from a macro to micro dimension using transport models would be a benefit for both, as optimizing the traffic control in main junctions in the area of the development will reduce the traffic congestion and delays. The paper deals with effects on reducing fuel consumption and emissions as an effect of optimization of traffic control in main junctions in the areas of new developments.

Keywords: urban transport systems, traffic control, traffic congestions, traffic delays

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