

INVESTIGATION ON EFFECT OF CELLULAR AUTOMATION ON BENGALURE TRAFFIC FLOW WITH FIXED BUS LANE AND TEMPORARY BUS LANE

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ABSTRACT

The aim of the paper was to investigate effect of cellular automation public traffic flow system for solving the Bengalure transport problem. This developed approach was investigated on fixed bus lane (FBL), temprary bus lane (TBL) and two way traffic instances are simulated and the problem providing an adequate compression in the from of the basic diagram of speed-density fuction graphs. FBL solution can be applied to real transport networks in order to increase the transport capacity FBL is only appropriate for low traffic flow in a two lane traffic system, and this limitation can be partly overcome by opening the bus lane to general traffic intermittently when the bus lane is not in use by buses. A case study based on an actual public bus route in Bengalure is used to demonstrate the usefulness of such an integrated simulation framework.

KEYWORDS: Traffic Flow, Dedicated Bus Lane, Design Numerical Model, Density of Vehicle