MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY, JAMSHORO

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Department of Computer System Engineering

TRAFFIC CONGESTION CONTROL SYSTEM (TCCS)

FOR MEGACITIES

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ABSTRACT

Traffic is formally organized in many jurisdictions, with marked lanes, junctions, intersections, interchanges, traffic signals, or signs. Traffic is often classified by type: heavy motor vehicle (e.g. car, truck), other vehicle (e.g. moped, bicycle) and pedestrian. Different classes may share speed limits and easement, or may be segregated. Some jurisdictions may have very detailed and complex rules of the road. If signals do not control a 4- way intersection, signs or other features are typically used to control movements and make clear priorities.

One of the main problems in our city is traffic we have focused this issue in this project by proposing a smart solution for traffic congestion problems in mega cities. The main design concept of this project is to control the traffic automatically via digital image processing (DIP) methods. The proposed solution may be applicable for junctions, cross-sections, etc during peak traffic hours to avoid traffic jams and congestions. Nevertheless, it can also be used to monitor and control traffic delays and avoid long waiting intervals in case of low traffic flow.