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(57) Abstract :
According an embodiment, the present disclosure provides a system for controlling traffic at an intersection. The system includes one or more traffic controlling apparatuses having one or more control lights, the one or more traffic controlling apparatuses configured at the intersection having two or more intersecting lanes, at least one camera configured at the intersection to capture one or more images of at least a part of the two or more intersecting lanes. A processing unit operatively coupled with the at least one camera and the one or more traffic controlling apparatuses, the processing unit configured to extract one or more features from the captured one or more images, wherein the one or more features pertains to traffic on each of the two or more intersecting lanes. Determine density of traffic on each of the two or more intersecting lanes by determining number of objects of traffic on each of the two or more intersecting lanes based on the extracted one or more features; and generate control signal for each of the one or more traffic controlling apparatuses for controlling time period of operation of the one or more control lights of each of the one or more traffic controlling apparatuses.

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