

ABSTRACT

Embodiments of the disclosure provide systems and methods for optimizing a traffic control plan. The system may include at least one storage device configured to store instructions and at least one processor configured to execute the instructions to perform operations. The

5 operations may include receiving traffic system log data and parsing the traffic system log data to obtain a first set of traffic performance parameters. The operations may also include receiving trajectory data relating to a plurality of vehicle movements and parsing the trajectory data to obtain a second set of traffic performance parameters. The operations may further include determining relationships between vehicle delays and degrees of saturation

10 based on the first and second sets of traffic performance parameters. In addition, the operations may include optimizing the traffic control plan based on the relationships.

(Fig. 4)