

1 A Supplementary Materials

2 A.1 Experiment Dataset

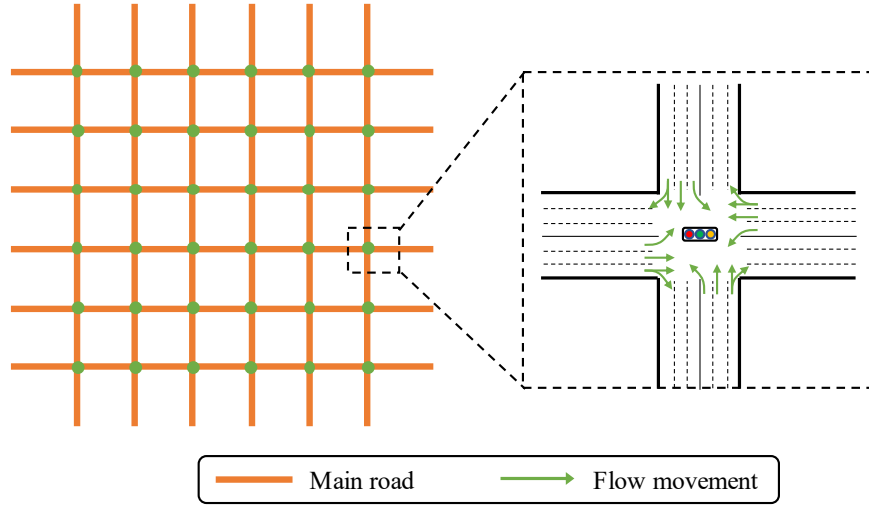


Figure 1: The 6×6 synthetic grid network and the flow movements at a single intersection

3 Figure 1 shows the 6×6 synthetic grid network used in the experiment. There are totally 36 homoge-
4 neous intersections in this network. Each intersection has 4 incoming directions and 12 incoming
5 lanes. For the vehicle flow from one direction, there are 3 movements (i.e., right-turn, straight, and left-
6 turn). Each intersection has four candidate actions (i.e., phase combinations that can be set to green for
7 a given time instant): {West \rightarrow East, West \rightarrow South, East \rightarrow West, East \rightarrow North}, {West \rightarrow
8 North, East \rightarrow South}, {South \rightarrow North, South \rightarrow East, North \rightarrow South, North \rightarrow West}
9 and {South \rightarrow West, North \rightarrow East}.