

**SYSTEM AND METHOD FOR ADAPTIVELY PREDICTING A ROAD SEGMENT
ATTRIBUTE BASED ON A GRAPH INDICATIVE OF RELATIONSHIP BETWEEN A
ROAD SEGMENT AND A DETECTION**

Abstract

In one aspect, the present disclosure adaptively predicting a road segment attribute based on a graph that is indicative of a relationship between a road segment and a detection. The method comprises identifying the road segment and its corresponding feature, identifying the detection and its corresponding feature, the feature being one of detection confidence, geo-positioning confidence, distance from the camera; and adaptively providing a graph on a relationship between the road segment and the detection based on the respective features of the road segment and the detection so as to predict the road segment attribute.

Fig. 2