

SYSTEM AND METHOD FOR PREDICTING ROAD TRAFFIC SPEED

ABSTRACT

A system for predicting road speed traffic is disclosed. The system may be configured to receive and process raw trajectory data to determine processed trajectory data; obtain node features representing information about road segment characteristics; obtain edge features representing information about interactions between the node features; determine a learned graph representation of a road network based on a node embedding of the node features and an edge embedding of the edge features; determine at least one hidden states value based on a graph convolution of the learned graph representation through the at least one encoder neural network; and predict road speed traffic based on the at least one hidden states value through at least one decoder neural network.

FIG. 3