

## Input Data



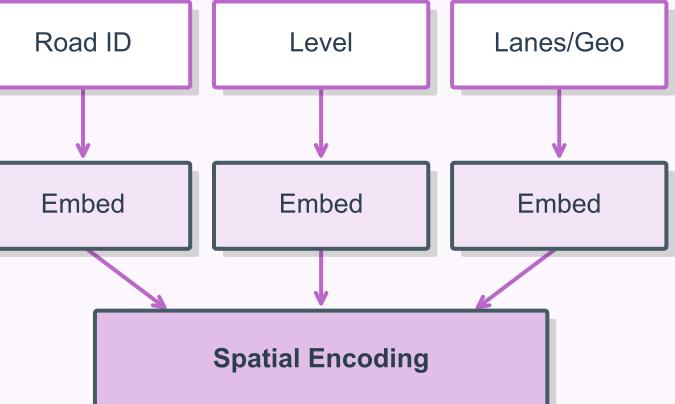
Road Network  $G(V, E)$



Traffic Flow Sequences  $X_t$

## Spatio-Temporal Representation Clustering

### Static Spatial Features



Spatial Encoding

S-T Gating Unit

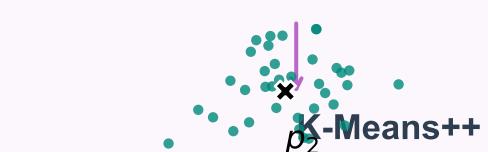
Dynamic Temporal

Traffic2Vec  
(Linear+Sin)

### Spatio-Temporal Representation $h$



Clustering



Cluster Centroids  $p_k$

## Spatio-Temporal Meta Learner

### Cluster-aware Contextual Memory Unit

