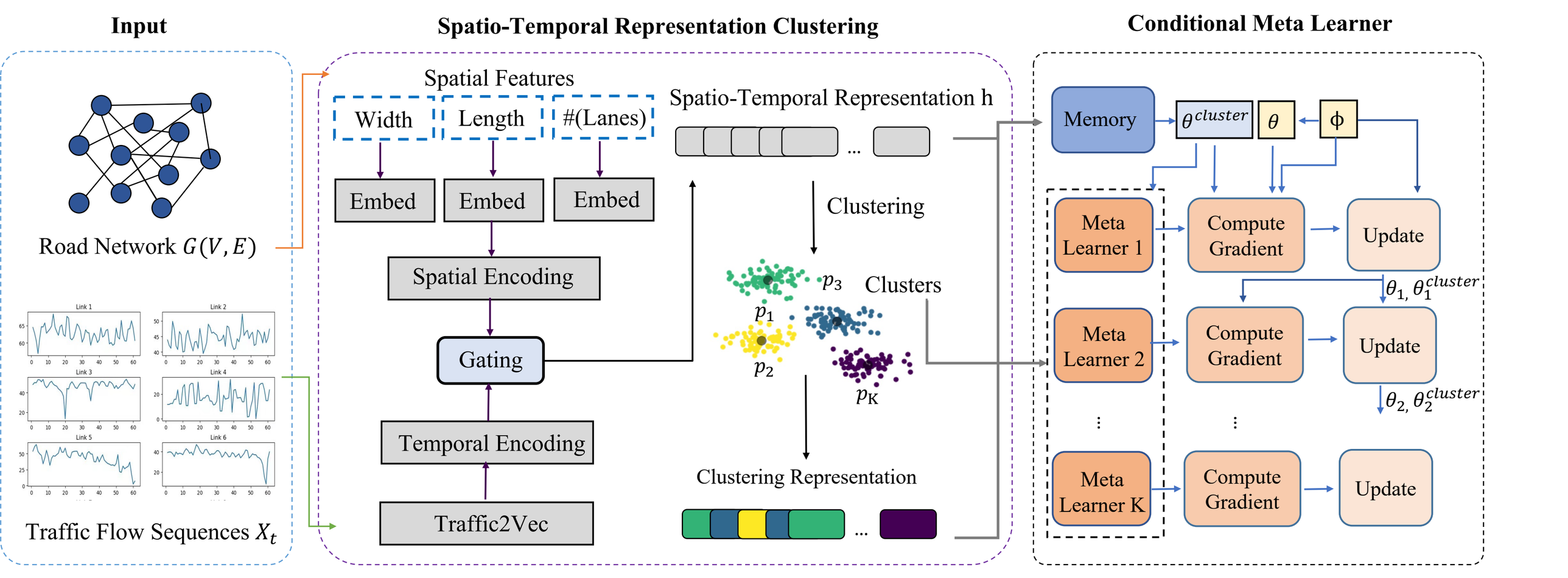
Input
Spatio-Temporal Representation Clustering
Conditional Meta Learner
Road Network $G(V, E)$
Traffic Flow Sequences X_t
Spatial Features
Width
Length
#(Lanes)
Embed
Embed
Embed
Spatial Encoding
Gating
Temporal Encoding
Traffic2Vec
Spatio-Temporal Representation h
Clustering
Clusters
p_1
p_2
p_3
p_K
Clustering Representation
Memory
$\theta^{cluster}$
θ
ϕ
Meta Learner 1
Meta Learner 2
Meta Learner K
Compute Gradient
Compute Gradient
Compute Gradient
Update
Update
Update
$\theta_1, \theta_1^{cluster}$
$\theta_2, \theta_2^{cluster}$