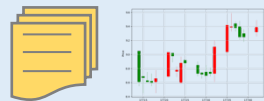


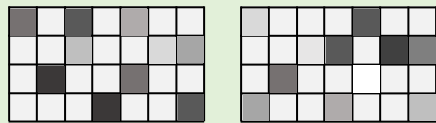
Hypergraph Construction


 \mathcal{G}^1

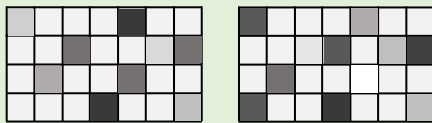
.....


 \mathcal{G}^t

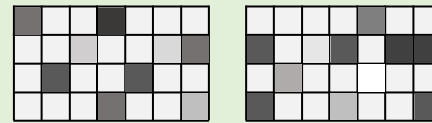
.....


 \mathcal{G}^T

 $S^{sv,1}$
 $S^{tv,1}$

Semantic View


 $S^{sv,t}$
 $S^{tv,t}$

Topological View


 $S^{sv,T}$
 $S^{tv,T}$

Temporal Propagation

Temporal Propagation

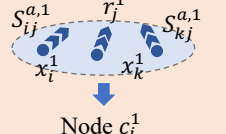
 $S^{a,1}$
 $S^{a,t}$
 $S^{a,T}$

U^1 U^{t-1}

U^t U^{T-1}

Hyperedge \rightarrow Node

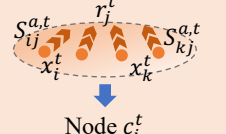
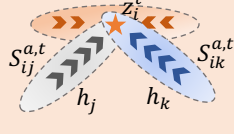
Node \rightarrow Hyperedge



Node c_i^1

Hyperedge \rightarrow Node

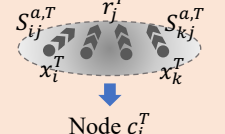
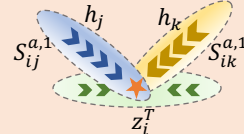
Node \rightarrow Hyperedge



Node c_i^t

Hyperedge \rightarrow Node

Node \rightarrow Hyperedge



Node c_i^T

 F^1

.....

Temporal Attention

 F^t

.....

Temporal Attention

 F^T
 $f^{a,1}$
 o^0

Gated Recurrent Network

 o^1

...

 o^{t-1}
 $f^{a,t}$

Gated Recurrent Network

 o^t
 $f^{a,t+1}$

...

 o^{T-1}
 $f^{a,T}$

Gated Recurrent Network

 o^T