Input

t+1

t+h

Parliament
Military Persinnel

negiotiation
protest

News Sentence: "...show up at the rallies and vist the people..."

Citizen

News Sentence: "...staged demenstrations, clashed wtith..."

Sentence embedding

Text-CompGCN

Cache (t)   Memory (t)

Recurrent Encoder

$\hat{y}$

Prediction

Cache and Memory Modules

$c_s(t-1)$ $c_o(t-1)$ $c_r(t-1)$

Cache (t-1)

$m_s(t-1)$ $m_o(t-1)$ $m_r(t-1)$

Memory (t-1)

t-1

Events at t: $\{(s, r, o, T, F)\}$

Graph Attention

$z_s(t)$

$z_o(t)$

Memory updator

$m_s(t)$

$m_o(t)$

$m_r(t)$

Memory (t)

$msg(s)$ $z_s(t)$ $z_o(t)$ $c_r(t-1)$ T

$msg(o)$ $z_o(t)$ $z_s(t)$ $c_r(t-1)$ T

$msg(r)$ $z_s(t)$ $z_o(t)$ F T

Cache updator

$c_s(t)$

$c_o(t)$

$c_r(t)$

Cache (t)

t+1