?
?
??
?
?
$_{orig}|vid)*$
$sim(V_{sim}, V_{orig})*$
$p(O|vid)$
$_{1}*$
$visScore+$
w_2*
$nlpScore$
??
V_{sim}
?
?
??
$k \in$
$\{S, V, O, P\}$
$\phi_k(t) =$
$C_k(t) \quad , \quad \phi_{k,l}(t, s) =$
$p(l =$
$s|k =$
$t) =$
$\alpha p_0(l =$
$s|k =$
$t)+$
$(1-$
$\alpha)p_i(l =$
$s|k =$
$t)$
k
k
t
k
l
$SVOP$
s
t
?
?
$h_t =$
$g(W_{xh}x_t+$
$W_{hh}h_t+$
$b_h)$
v_t
$\phi_v(v_t)$
V
$\phi_t \in$
$\Re^d$
W
x_t
h_{t-1}
z_t
h_t
z_t
$_{t} =$
$c) =$
$\frac{\exp{(W_{zc}z_{t,c}+b_c)}}{\sum_{c' \in C} \exp{(W_{zc}z_{t,c}+b_c)}}$
T
W
??
?
??
σ
ϕ
$_{t} =$
$\sigma(W_{xi}x_t+$
$W_{hi}h_{t-1}+$
$b_i)f_t =$
$\sigma(W_{xf}x_t+$
$W_{hf}h_{t-1}+$
$b_f)o_t =$
$\sigma(W_{xo}x_t+$
$w_{ho}h_{t-1}+$
$b_o)$
$g_t =$
$\phi(W_{xc}x_t+$
$W_{hc}h_{t-1}+$
$b_c)c_t =$
f_t*
$c_{t-1}+$
i_t*
$g_t h_t =$
o_t*
$\phi(c_t)$
??
fc_7
fc_6
d
x_t
t