??

Opinion Integration Problem ??

??

$V =$
$\{u_i\} E =$
$\{(u_i, u_j) | u_i, u_j \in V\} M_i =$
$\{m_i\} T =$
$\{Topic_j\} u_i$
$Topic_j O_{i,j} m_i Topic_j M_i =$
$\{m_i\}$
$G =$
$(V, E) VE \subset$
$V \times$
V
$u \in$
V
$M_u T$
VS
$u \in$
V **subjectivity** M_u
$uP(u) T \{t\} \{O_t\} S$

$$P(u) = \{(t, w_u(t), \{d_{u,t}(s) | s \in S\}) | t \in T\} \quad (1)$$

$uw_u(t) t \in$
$T \sum_{t=1}^{|T|} w_u(t) =$
1
$utO_t SO_t =$
$\{d_{u,t}(s) | s \in$
$S\} \sum_{s=1}^{|S|} d_{u,t}(s) =$
1
??
u
$\theta_u \sim$
$Dir(\alpha)$
$w_{u,n} n \in$
$\{1, \cdots, N\}$
$z_{u,n} \sim$
$Multinomial(\theta_u)$
$z_{u,n} w_{u,n}$
$p(w_{u,n} | z_{u,n}, \beta_k)$

$VK u \in$
$V \theta_u \alpha k \in$
$K \beta_k \eta$
?
?
$[1, 5] [-5, -1] [0, 8]$

$$o = \{ p + 3 \; if \; |p| > |n| n + 5 if \; |n| > |p| 4 if \; |p| = |n| \quad (2)$$

$pn[0, 8][0, 8]$
$VM_u =$
$\{m_i\}$
$u \in$
$VM_u d_u \{d_u | u \in$
$V\} K$
$\theta T \beta$
ms_m
$uP(u)$??
V
u
M_u
u
$P(u)$
$P(\theta, \beta | M_u, V)$
$m \in$
M_u
m
s_m
$u \in$
V
θ
θ_u
$Z_u =$
$\{t | p(t | \theta_u) > 0, t \in T\}$
$m \in$
M_u
m

$$Z_m = \{t | p(t | \theta, \beta, Z_u) > 0, t \in T\}. \quad (3)$$

$t \in$
Z_u
$s \in$
S
t