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$$\begin{aligned} V &= \\ \{u_i\}E &= \\ \{(u_i,u_j)|u_i,u_j \in V\}M_i &= \\ \{m_i\}T &= \\ \{Topic_j\}u_i &= \\ Topic_jO_{i,j}m_iTopic_jM_i &= \\ \{m_i\} &= \\ (V,E)VE \subset &= \\ V \times &= \\ V \in &= \\ V &= \\ M_uT &= \\ VS &= \\ u \in &= \\ V\textbf{subjectivity}M_u &= \\ uP(u)T\{t\}\{O_t\}S &= \end{aligned}$$

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

$$\begin{aligned} &uw_u(t)t\in \\ &T\sum_{t=1}^{|T|}w_u(t)= \\ &\frac{1}{u}tO_tSO_t= \\ &\{d_{u,t}(s)|s\in \\ &S\}\sum_{s=1}^{|S|}d_{u,t}(s)= \\ &\frac{1}{??} \\ &\hat{\theta}_u\sim \\ &Dir(\alpha) \\ &w_{u,n}n\in \\ &\{1,\cdots,N\} \\ &z_{u,n}\sim \\ &Multinomial(\theta_u) \\ &z_{u,n}w_{u,n} \\ &p(w_{u,n}|z_{u,n},\beta_k) \\ &VKu\in \\ &V\theta_u\alpha k\in \\ &K\beta_k\eta \\ &[1,5][-5,-1][0,8] \end{aligned}$$

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

$$\begin{aligned} &pn[0,8][0,8] \\ &VM_u= \\ &\{m_i\} \\ &u\in \\ &VM_u d_u\{d_u|u\in \\ &V\}K \\ &\theta T\beta \\ &ms^m \\ &uP(u)?? \\ &V \\ &M_u \\ &u \\ &P(u) \\ &P(\theta,\beta|M_u,V) \\ &m\in \\ &M_u \\ &\hat{m} \\ &s_m \\ &u\in \\ &V \\ &\theta \\ &\theta_u \\ &Z_u= \\ &\{t|p(t|\theta_u)>0,t\in T\} \\ &m\in \\ &M_u \\ &\hat{m} \\ &Z_m=\{t|p(t|\theta,\beta,Z_u)>0,t\in T\}. \end{aligned}$$

$$(3) \quad$$

$$\begin{aligned} &t\in \\ &Z_u\in \\ &s\in \\ &S \\ &t \end{aligned}$$