Table s1. Mechanism of initialization of the model in pseudocode

Agent-Based Model: Initialized			
1.	**Generate network topologies and initial agents**		
1.1	Set network topology		$\forall\, WS, BA, ER$
1.2	Set network of nodes(agents)		V
1.3	Choose the way to assign bots		$\{hige\ degree\ nodes, low\ degr$ $random\}$ $Default: random$
1.4	Assign the species of agents		$S \in \{"1", "2"\}$
2	**Assign the properties of agents**		
2.1	Set the opinions of agents		
2.1.1		$\forall\, i \in V$ $if\ S == "1"$ $\Omega = N(0.5, 0.15\ ),$ $if\ S == "2"$ $\Omega = \beta(0.1, 0.1\ ),$ $if\ \Omega > 1$ $\Omega = 1$ $if\ \Omega < 0$ $\Omega = 0$	$\Omega \in [0,1]$
2.2	Set the tolerance		$\varepsilon \in [0,1]$
2.2.1		$\forall\, i \in V$ $if\ S == "2"$ $\varepsilon = inf$ $else$ $\varepsilon = \varepsilon$	
2.3	Set the degree of homophily		$m \in [0,1]$
2.4	Set the degree of confidence to human and bots		$\mu_{to\_bots}, \mu_{to\_human} \in [0,1]$ $Default = 0.4$

Table s2. Mechanism of the update function of the model in pseudocode

Agent-Based Model: Opinion exchange by post propagation		
1.	**Prepare for posting**	
1.1	Randomly select an agent i	i ∈ V
1.2	Set the list of potential people who may share the post.	E
1.3	Set the list of influenced people	I
1.2	Decide the parameter μ	
1.2.1	$if\ S_i == "1"$ $\mu = \mu_{to\_human}$ $else$ $\mu = \mu_{to\_bot}$	$\mu \in \{\mu_{to_{human}}, \quad \mu_{to\_bot}\}$
1.3	Agent i make a post	$post\_i$
1.3.1	$\Omega_{post} = \Omega_i + N(0,0.05)$ $Then$ $if\ \Omega_{post} > 1$ $\Omega_{post} = 1$ $if\ \Omega_{post} < 0$ $\Omega_{post} = 0$	$\Omega_{post_i} \in [0,1]$
1.3.2	Set the Ω that spread this round. since it is the first round, just share the original post $\Omega_{post_i} = \Omega_{post}$	$\Omega_{post_i} \in [0,1]$
1.4	Set up the post share time to 0 $t_{post} = 0$	$t_{post\,i} \in N$
2.	**Post propagation**	
2.1	Get the degree of all agents in the neighborhood of agent i.	$N(i) \in d(i)$
2.2	Calculate ε_l and ε_r by their Ω and m	
2.2.1	$\forall\ j \in N(i)$	$\varepsilon_l, \varepsilon_r \in [0,1]$ $\varepsilon_l + \varepsilon_r = \varepsilon$

		$\delta_r(x) = mx + \frac{1-m}{2}$ $\varepsilon_r(\Omega_j) = \delta_r(\Omega_j)\varepsilon_r$ $\varepsilon_l(\Omega_j) = \varepsilon - \varepsilon_r(\Omega_j)$	
2.3	N(i) receives the post and decide whether accept it, or not.		
2.3.1		Calculate the difference of opinion $\forall\, j \in N(i)$ $\Delta\Omega_j = \Omega_{post_i} - \Omega_j$	$\Delta\Omega_j \;\forall\; j \; in \; N(i)$
2.3.2	Decide whether accept or not $\forall\, j \in N(i)$ $if\ \Delta\Omega_j \geq 0$ $if\ \lvert\Delta\Omega_j\rvert < \varepsilon_r$ $accept_j = True$ $else$ $accept_j = False$ $if\ \Delta\Omega_j < 0$ $if\ \lvert\Delta\Omega_j\rvert < \varepsilon_l$ $accept_j = True$ $else$ $accept_j = False$		
2.3.3	Put agents who are accepted and did not accept the post before into a list. $Let\ A = \{\}$ $\forall\, j \in N(i)$ $if\ accept_j == True\ \&\ j \notin \mathrm{I}$ $j \in A$		A
2.4	Extend E and I and remove agent i from E Let $A \in E$ and $A \in I$ $Then$ Let $\mathrm{i} \notin \mathrm{E}$		
2.5	Opinion exchange		

2.5.1	$\forall j \in A$ $if\ S_j == "1"$ $\Omega_j = \Omega_j + \Delta\Omega_j * \mu$ $else$ $\Omega_j = \Omega_j$	
2.6	Update the t_{post_i} $t_{post_i} += 1$	
2.7	Choose whether stop this round of propagation. $If\ t_{post_i} > 20 \mid E == \emptyset$ $break$	
2.8	Choose a new agent i from E	$i \in E$
2.9	Decide the new parameter μ	
2.9.1	$if\ S_i == "1"$ $\mu = \mu_{to\_human}$ $else$ $\mu = \mu_{to\_bot}$	
2.10	New agent i share the post	
2.10.1	$\Omega_{post_i} =$ $\Omega_{post} + (\Omega_i - \Omega_{post_i}) * N(0.5,0.05,1)$ $Then$ $if\ \Omega_{post_i} > 1$ $\Omega_{post_i} = 1$ $if\ \Omega_{post_i} < 0$ $\Omega_{post_i} = 0$	
2.11	Back to 2.1 and repeat the process	