





















<i>v_n(t)</i> . potential of hode if at time t
 Follower nodes Follower nodes <i>β</i>,<i>θ</i>,<i>α</i>,³, weighting constant <i>N_b</i>(<i>n</i>): neighbor nodes of node n Update their potential to follow neighbor nodes through local interaction among nodes
$ \begin{aligned} \bullet \ \theta_n(t) &= (\alpha+1)\theta_n(t-1) - \alpha\theta_n(t-2) \\ &+ \beta\sigma_n(\Sigma_{k\in N_b(n)}\{\theta_k(t-1) - \theta_n(t-1)\} + f_n(t)) \end{aligned} $
 Leader nodes Update their potential based both on local interaction and control input from the external controller f (t) = (t) = (u) (t + 1)a (t + 1) = a (t + 2)
$+\beta\sigma_n(\xi) - (1-\omega)_n(t-1)\sigma_n(t-1) = \omega_n(t-2) + \beta\sigma_n(\Sigma_{k\in N_b(n)}\{\theta_k(t-1) - \theta_n(t-1)\} + f_n(t)\} + \omega_i \mathbf{g}_i$
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