Create a swarm with particles
Randomly initialize the particle position $X_j$ and velocity $V_j$
Calculate the fitness of each position of the particle
Calculate the $pbest$ and $nbest$ of each particle as described in our proposed algorithm
Update the velocity and position of each particle using (12) and (13)
Calculate the fitness of each particle
Calculate the $pbest$ and $nbest$ of each particle as described in our proposed algorithm

Required fitness achieved OR number of iterations passed
End