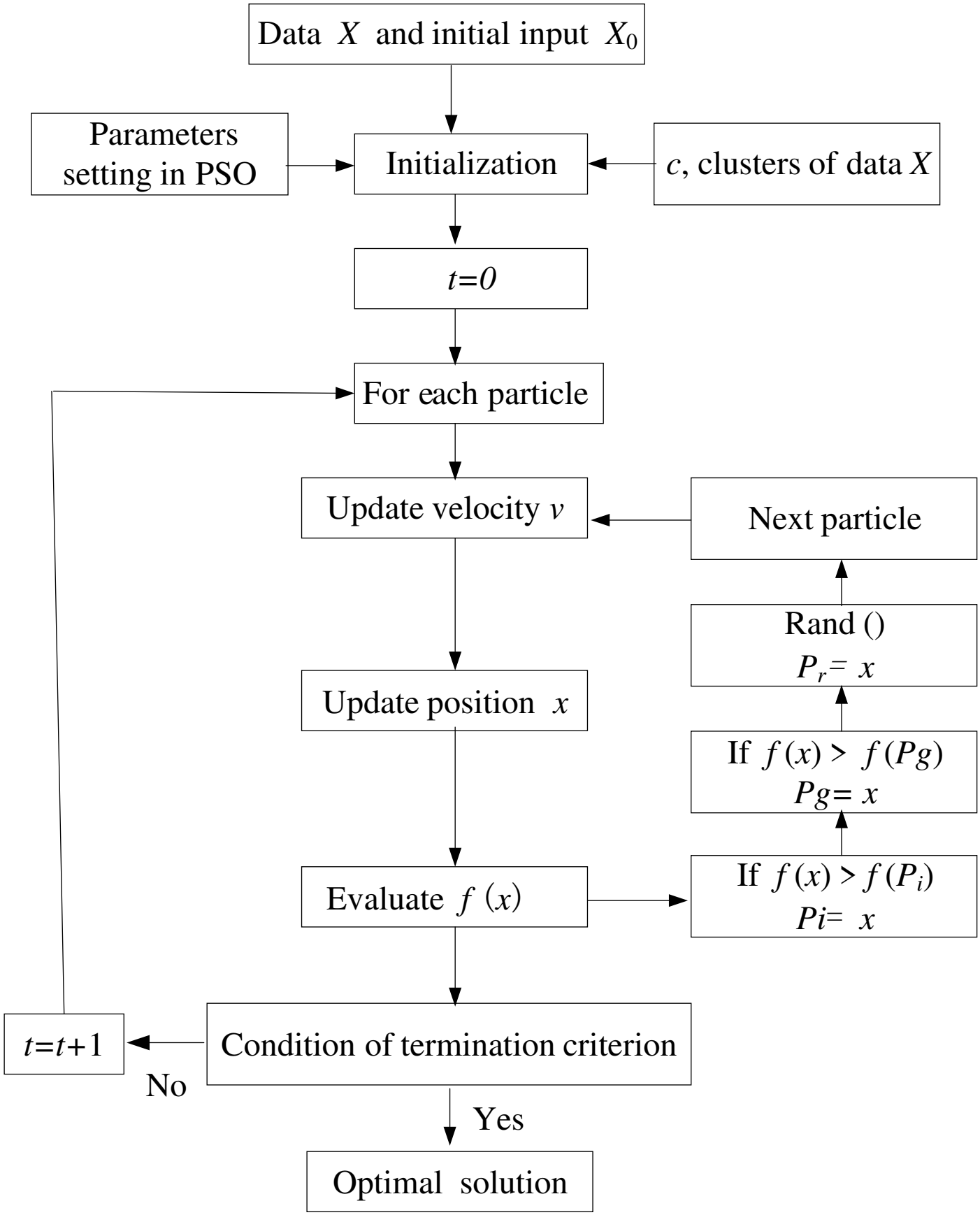
Data X and initial input X_0
Parameters setting in PSO
Initialization
c, clusters of data X
$t=0$
For each particle
Update velocity v
Next particle
Rand ()
$P_r = x$
Update position x
If $f(x) > f(Pg)$
$Pg = x$
Evaluate $f(x)$
If $f(x) > f(P_i)$
$Pi = x$
$t=t+1$
Condition of termination criterion
No
Yes
Optimal solution