ON RECEIVING CH(U):

When a neighbour u becomes a clusterhead, on receiving the corresponding CH message, node v checks if it has to affiliate with u i.e., it checks whether w_u is bigger than the weight of v's clusterhead or not.

```
ON RECEIVING CH(u);

begin

if (wu > wclusterhead) then

begin

send JOIN(v,u);

Clusterhead := u;

if Ch(v) then Ch(u) := false

end

end
```

ON RECEIVING JOIN(U,Z):

ON RECEIVING JOIN(u,z);

On receiving the message Join(u,z), the behaviour of a node v depends on whether it is a clusterhead or not. In the affirmative, v has to check if either u is joining its cluster. If v is not a clusterhead, it has to check if u was a clusterhead. Only of this is the case, v has to decide its role. It will join the biggest node in the neighbourhood such that $w_v > w_v$ if such a node exists.

```
begin if CH(v) then if z=v then Cluster(v) := Cluster(v) \cup \{u\} else if u \in Cluster(v) then Cluster(v) := Cluster(v) \setminus \{u\} else if Cluster(v) then
```

if $\{z \in \Gamma(v) : w_z > w_v \wedge Ch(z)\} \neq \phi$ then begin