

```
function C1w = generate_C1w(r ,r_s ,i ,j ,num_nei ,Cv) %weight parameter
%if communication and sensing distances are equal
if (r_s(i) == r_s(j)) && (r_s(i) == r) && (r_s(j) == r)
    C1w = 2*(Cv / ((r_s(i)^2) * length(num_nei-1))); %set legnth as N-1 for
        inequality
else
    C1w = ((1/length(num_nei-1))) * (Cv/(r_s(i)^2) + Cv/(r_s(j)^2));
end
end
```