Node 1

Node 2

$W_1=1/L_1$

$W_2=1/L_2$

$W_3=1/L_3$

$W_4=1/L_4$

L_1

L_2

× Particle

L_3

L_4

Node 3

Node 4

$$F_{Particle} = (F_{N1} * W_1 + F_{N2} * W_2 + F_{N3} * W_3 + F_{N4} * W_4)/(W_1 + W_2 + W_3 + W_4)$$