

$$t_{(m,i,\alpha_1)(n,j,\alpha_2)}^{\text{AGV}} = \left(\left| X_{(m,i,\alpha_1)}^{\text{position}} - X_{(n,j,\alpha_2)}^{\text{position}} \right| + \left| Y_{(m,i,\alpha_1)}^{\text{position}} - Y_{(n,j,\alpha_2)}^{\text{position}} \right| \right) / v^{\text{AGV}}, \forall (m,i), (n,j) \in C, \forall \alpha_1, \alpha_2 \in \{0,1,2,3,4\}$$