



$$\begin{aligned} \vec{x} \left\{ \begin{aligned} \underline{I[R_1]} &= \frac{\frac{x'}{a} - x}{(x+1) - x} I[①] + \frac{(x+1) - \frac{x'}{a}}{(x+1) - x} I[②] \\ \underline{I[R_2]} &= \frac{\frac{x'}{a} - x}{(x+1) - x} I[④] + \frac{(x+1) - \frac{x'}{a}}{(x+1) - x} I[③] \end{aligned} \right. \end{aligned}$$

$$I[\star] = \frac{\frac{y'}{a} - y}{y+1 - y} \underline{I[R_1]} + \frac{(y+1) - \frac{y'}{a}}{y+1 - y} \underline{I[R_2]}$$

$$\begin{aligned} I[\star] &= \left( \frac{y'}{a} - y \right) \left\{ \left( \frac{x'}{a} - x \right) I[①] + \left[ (x+1) - \frac{x'}{a} \right] I[②] \right\} \\ &\quad + \left[ (y+1) - \frac{y'}{a} \right] \left\{ \left( \frac{x'}{a} - x \right) I[④] + \left[ (x+1) - \frac{x'}{a} \right] I[③] \right\} \end{aligned}$$

$$\frac{x'}{a} - x = d_x \in [0, 1], \quad \frac{y'}{a} - y = d_y \in [0, 1].$$

$$\begin{aligned} I[\star] &= d_y \left\{ d_x I[①] + (1 - d_x) I[②] \right\} \\ &\quad + (1 - d_y) \left\{ d_x I[④] + (1 - d_x) I[③] \right\} \end{aligned}$$