

$$\begin{pmatrix} N_x(x_1, y_1) & N_y(x_1, y_1) & 1 \\ N_x(x_2, y_2) & N_y(x_2, y_2) & 1 \\ \vdots & \vdots & \vdots \\ N_x(x_n, y_n) & N_y(x_n, y_n) & 1 \end{pmatrix} \begin{pmatrix} S_x \\ S_y \\ A \end{pmatrix} = \begin{pmatrix} I(x_1, y_1) \\ I(x_2, y_2) \\ \vdots \\ I(x_n, y_n) \end{pmatrix}$$