$$\sum_{j \in \text{points}} \left[\begin{array}{c} (u_j - \{[\sum_i \theta_{i,1} \phi(x_j, y_j; x_i^*, y_i^*)] + a_{00}x + a_{01}y + a_2\})^2 + \\ (v_j - \{[\sum_i \theta_{i,2} \phi(x_j, y_j; x_i^*, y_i^*)] + a_{00}x + a_{01}y + a_2\})^2 \end{array} + \lambda(\theta_{i,1}^2 + \theta_{i,2}^2) \right]$$