$$r = \begin{pmatrix} u_2 \\ v_2 \end{pmatrix} - P\left(H_2 H_i^{-1} \begin{pmatrix} u_i \\ v_i \\ 1 \end{pmatrix} \right)$$

$$P\begin{pmatrix} x \\ y \\ s \end{pmatrix} = \begin{pmatrix} x/s \\ y/s \end{pmatrix} \quad \text{projection}$$

$$e = \sum_i \sum_j \sum_k |r_{ij}^k|^2 \quad \leftarrow \text{ minimise } e \text{ wrt}$$

$\underbrace{}_{\substack{\text{image} \\ \text{pairs}}}$ $\underset{\text{matches}}{\uparrow}$

transformation matrices H_i

(3×3 matrices)

Levenberg Marquardt
optimiser