Scale Transformation
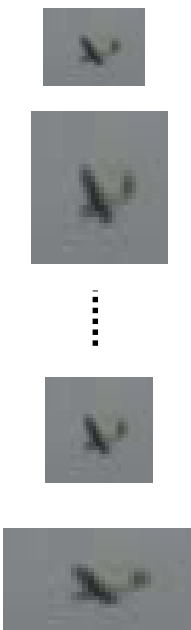
$$a^n P_{t-1} \times b^n R_{t-1}$$

Original Image
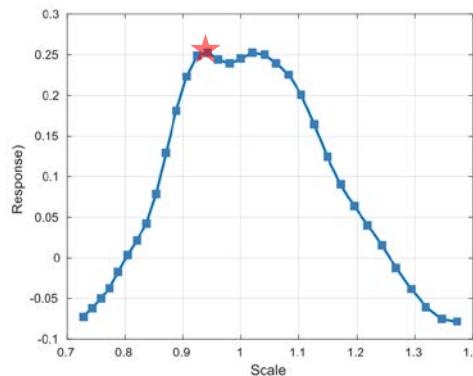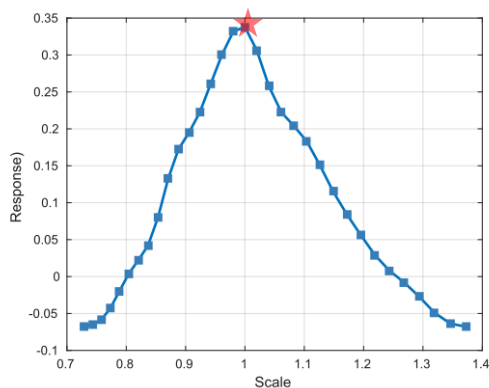
$$P_{t-1} \times R_{t-1}$$

20 Different Regionss

Rescale to Same Size

Felzenszwalb's HOG Features

$$\{Z_t^l\}, l = 1, 2, ..., 21$$

Response Map

Scale Factor

$$P_t = 1.00 \times P_{t-1}$$
$$R_t = 0.94 \times R_{t-1}$$

$$\mathbf{y}_t = \mathcal{F}^{-1}\left(\frac{\sum_{i=1}^{21} A_{t-1}^{l\ *} \odot Z_t^l}{B_{t-1} + \lambda} \right)$$