

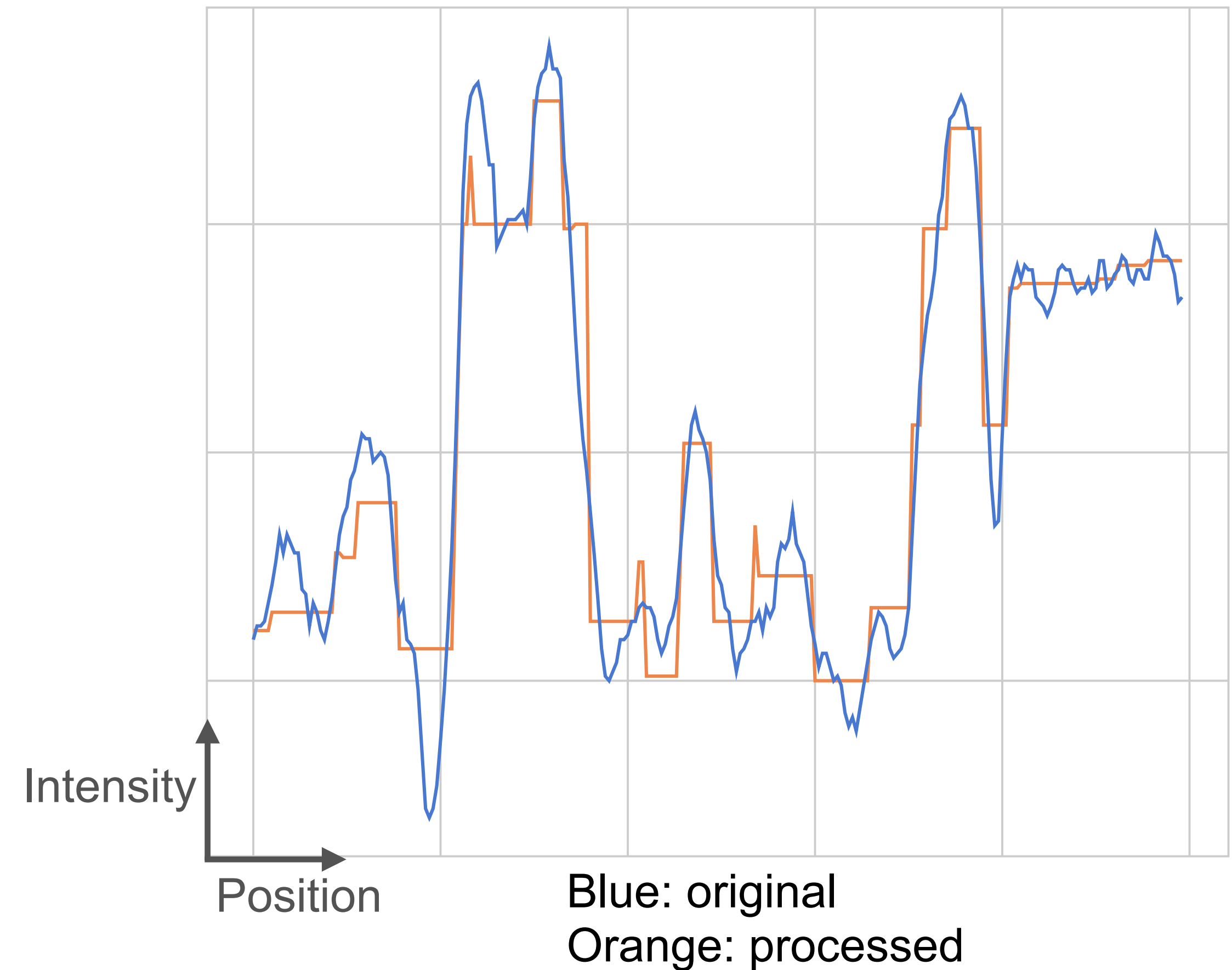
- Cluster to the nearest centre pixel
- Pixel as 5D vector: $[l, a, b, x, y]^T$
- Distance:

$$d_c = \sqrt{(l_c - l_i)^2 + (a_c - a_i)^2 + (b_c - b_i)^2},$$

$$d_s = \sqrt{(x_c - x_i)^2 + (y_c - y_i)^2},$$

$$D = \sqrt{d_c^2 + \left(\frac{d_s}{r}\right)^2 m^2},$$

$$r = \sqrt{n_I/k}$$



- Given image I to find smoothed image S
- Counting function non-zero gradients: $C(S)$
- Add constraint term and weight:

$$\min \left\{ \sum (S - I)^2 + \lambda \cdot C(S) \right\}$$

