fixed **3D** scan I_F

4D features $f(I_F)$

2) Correlation Layer
dense displacements, coarse grid
no trainable weights
→ **6D dissimilarity tensor** D

1) Feature CNN
shared, fine grid
deformable conv.

moving **3D** scan I_M

4D features $f(I_M)$
not all search windows shown

dim: 1-3   dim: 1-3

dim: 4-6   dim: 4-6

**3) Min-Convolution &
Mean-field inference**
for spatial label smoothness, acts
on dimensions 1-3 and 4-6 resp.

4) Spatial transform
non-local probabilistic label
loss + diffusion regularisation
→ φ