DAC: Detector-Agnostic Spatial

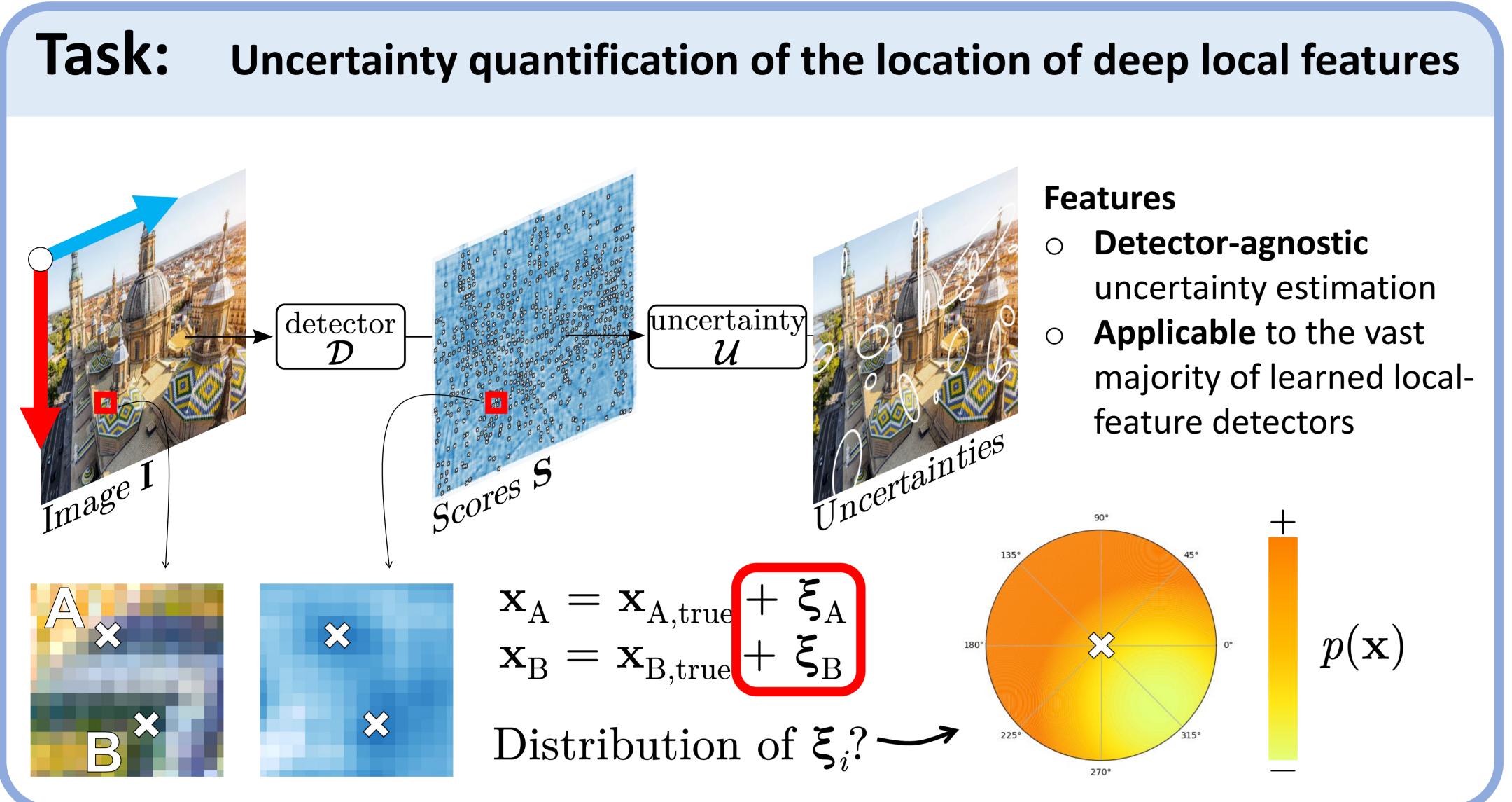


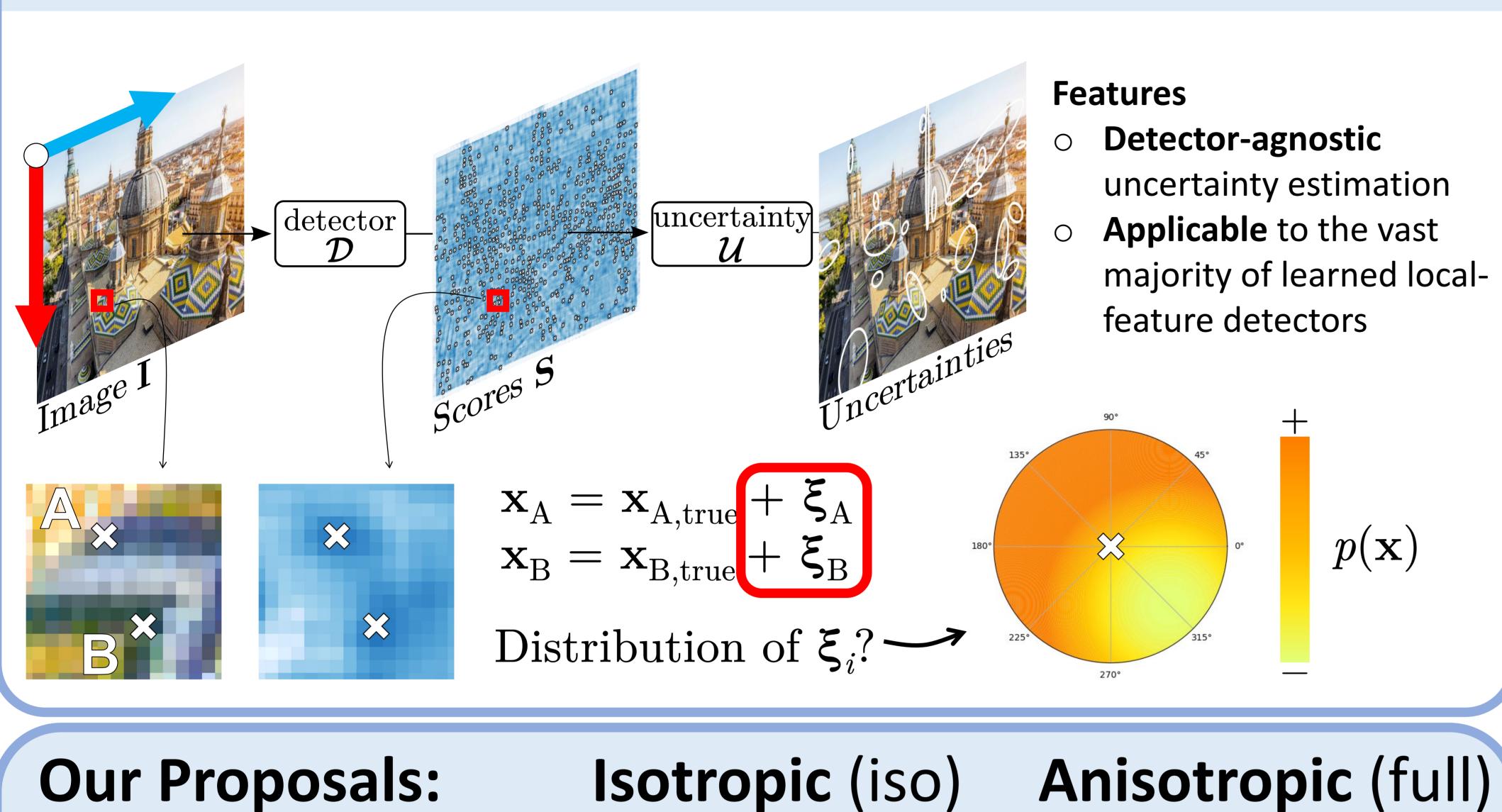
Covariances for Deep Local Features

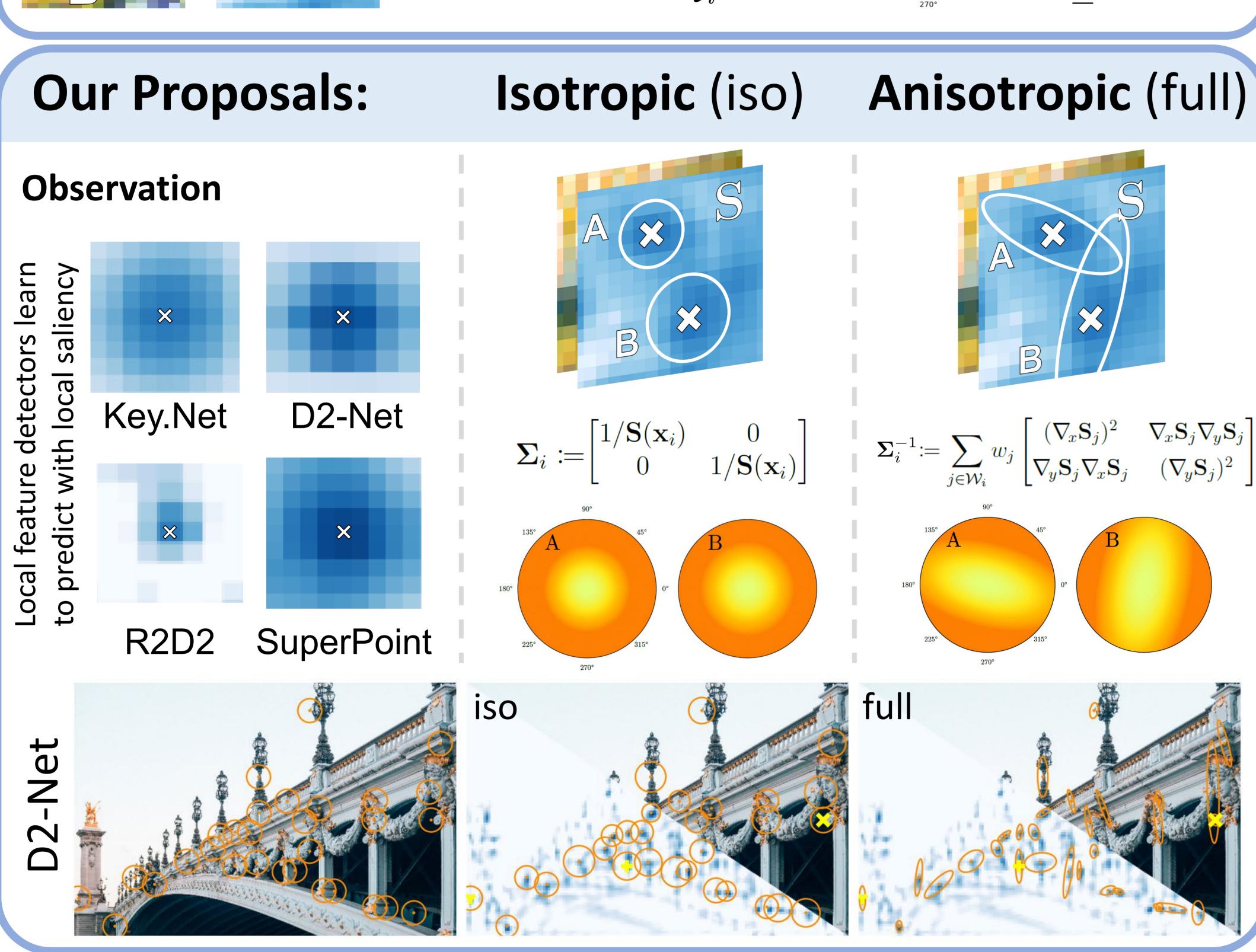
Javier Tirado-Garín¹ Frederik Warburg² Javier Civera¹





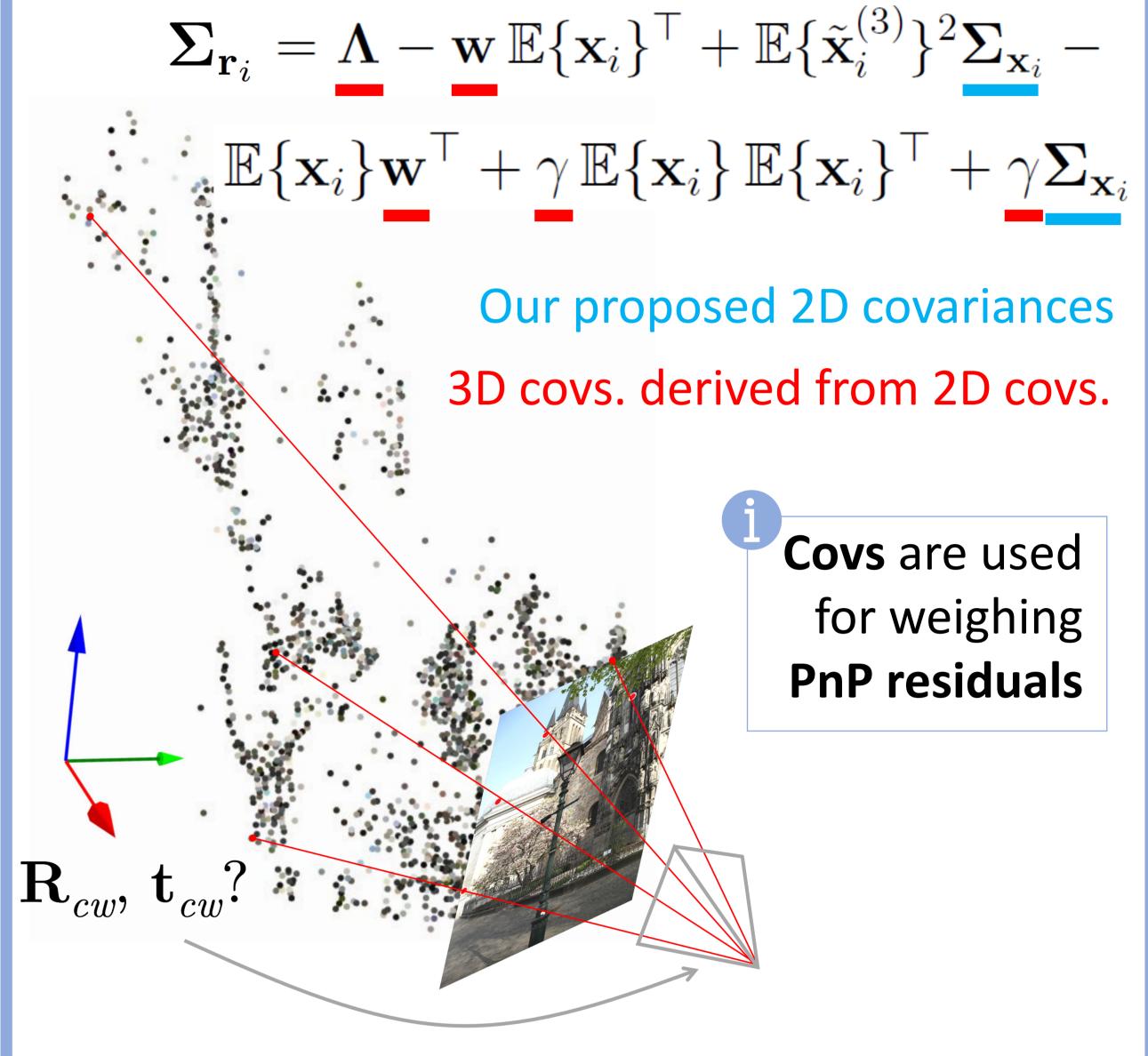




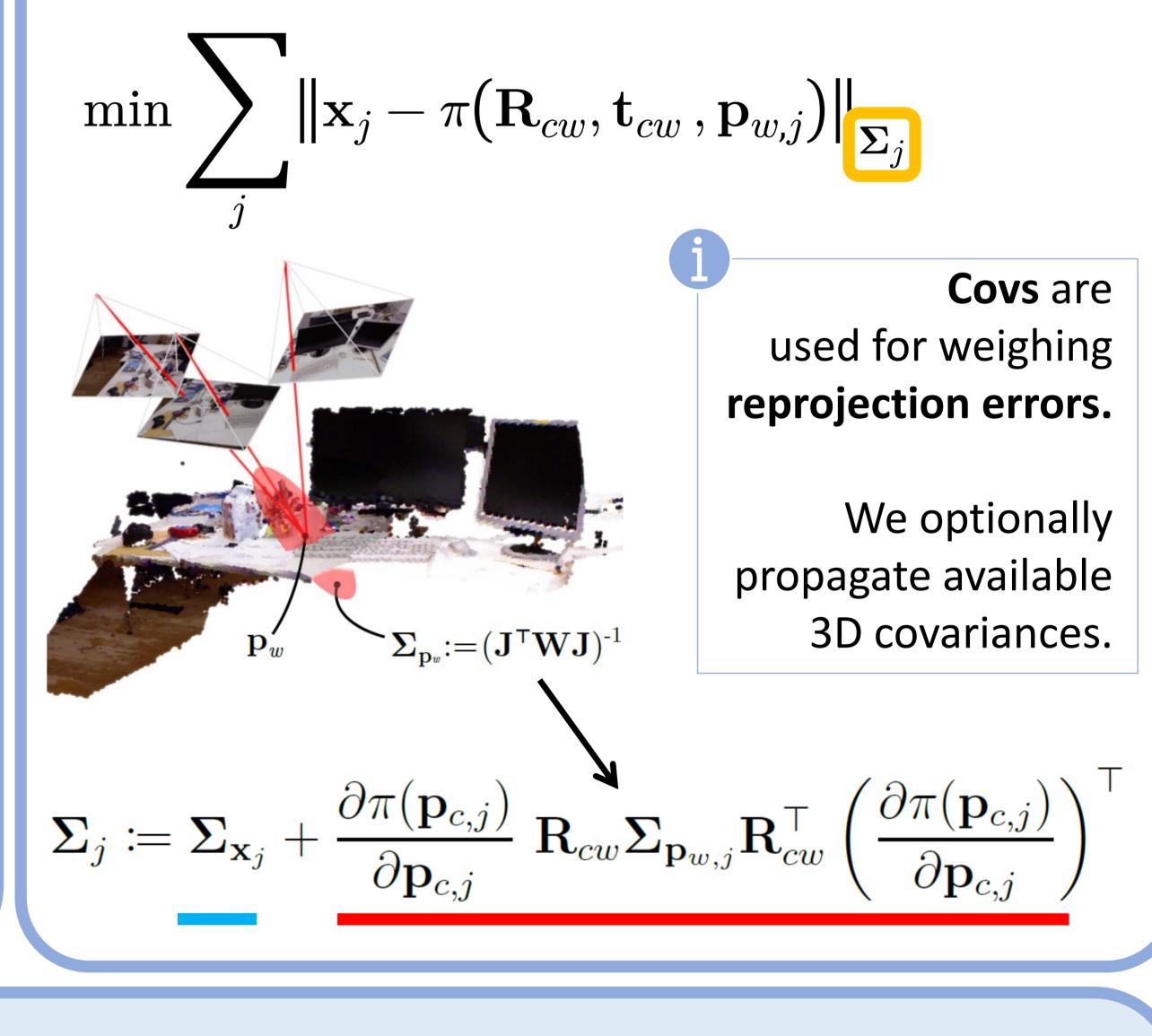


Applications

Perspective-n-Point (PnP) problem

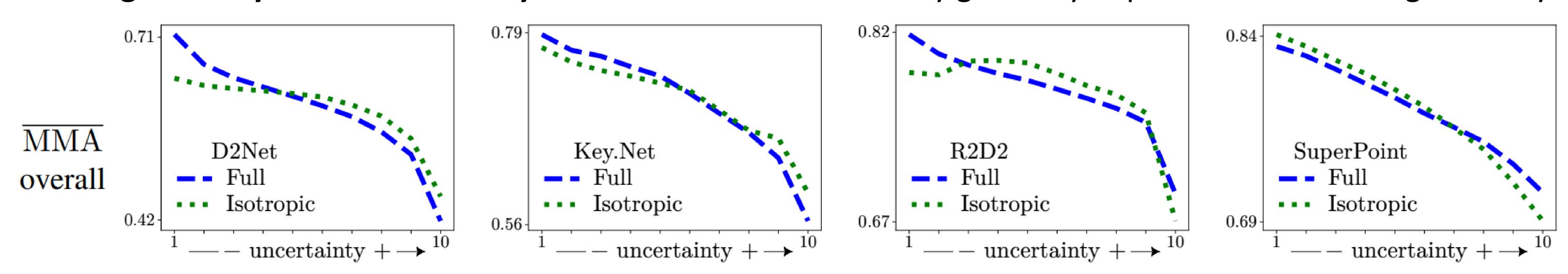


Nonlinear optimizations



Results

Matching accuracy vs our uncertainty estimates: Lower uncertainty generally implies better matching accuracy \checkmark



Camera pose estimation in TUM and KITTI: Estimations become more robust when leveraging our 2D and 3D covariances.

