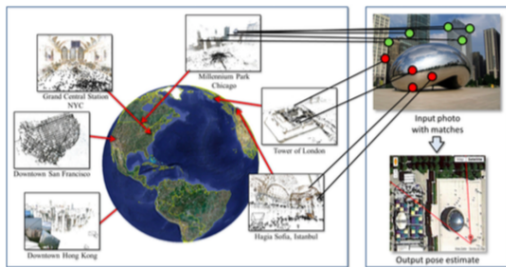


Worldwide Pose Estimation using 3D Point Clouds

Y. Li, N. Snavely, D. Huttenlocher, P. Fua (ECCV 2012)



- ▶ Addresses the problem of determining where a photo was taken by estimating a full 6-DOF-plus-intrinsics camera pose with respect to a large geo-registered 3D point cloud
- ▶ Contributions:
 - ▶ Observes that 3D points produced by SfM methods often have strong co-occurrence relationships
 - ▶ Finds such statistical co-occurrences by analyzing the large numbers of images in 3D SfM models
 - ▶ Presents a bidirectional matching scheme aimed at boosting the recovery of true correspondences between image features and model points
- ▶ Evaluates on Landmarks, San Francisco, Quad datasets