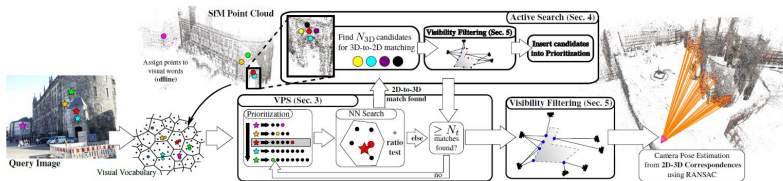


Efficient & Effective Prioritized Matching for Large-Scale Image-Based Localization

T. Sattler, B. Leibe, and L. Kobbelt (PAMI 2016)



- ▶ Accurately determining the position and orientation from which an image was taken using SfM point clouds
- ▶ Direct matching strategy comparing descriptors of the 2D query features and the 3D points in the model
- ▶ Vocabulary-based prioritized matching step is able to consider features more likely to yield 2D-to-3D matches
- ▶ Terminating the correspondence search as soon as enough matches have been found
- ▶ Visibility information from reconstruction process used to improve the efficiency
- ▶ Efficiently handling large-scale 3D models
- ▶ Evaluation on Dubrovnik, Rome and Vienna dataset used as standard benchmark for image-based localization