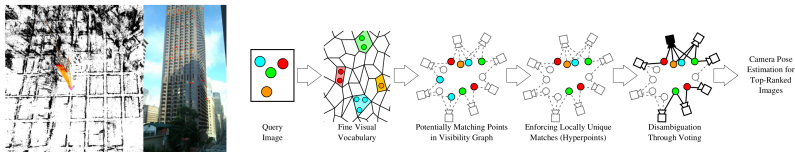


Hyperpoints and Fine Vocabularies for Large-Scale Location Recognition

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- ▶ Large-scale structure-based localization
- ▶ Problem: ineffective descriptor matching due to large memory footprint and the strictness of the ratio test in 3D
- ▶ Previous approaches:
 - ▶ Smart compression of the 3D model
 - ▶ Clever sampling strategies for geometric verification
- ▶ Implicit feature matching by quantization into a fine vocabulary
- ▶ Locally unique 2D-3D point assignment by a simple voting strategy to enforce the co-visibility of the selected 3D points
- ▶ Evaluation on SF-0, Landmarks datasets
- ▶ State-of-the-art performance with reduced memory footprint by storing only visual word labels