

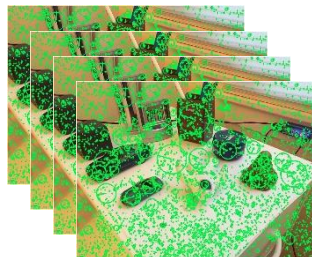
Traditional AF technique – low time efficiency

- Range Finder,
- Active AF
- Passive AF

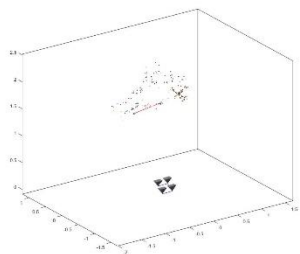
Multiview 3D Reconstruction



Get common
SIFT feature

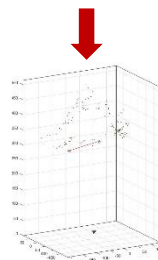
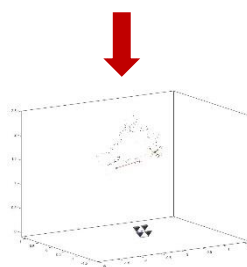


Structure from Motion



Scale Recovery

Predefined feature



SIFT Matching

Triangulation

Recover scale

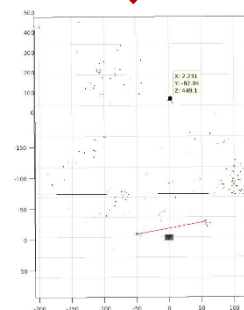
SFM based AF

- Scale Ambiguity
 - IMU
 - ✓ Pre-known object/feature

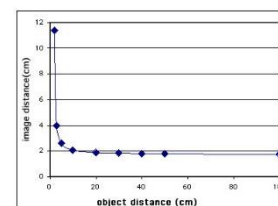
Depth Recovery & Focal Length Calculation



Focus area request



Recover depth



Calculate focal length