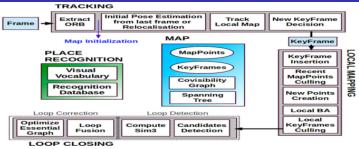
ORB-SLAM: a Versatile and Accurate Monocular SLAM System R. Mur-Artal, J. M. M. Montiel, J. D. Tardos (TR 2015)



- Proposes a feature-based monocular SLAM system that operates in real time, in small and large, indoor and outdoor environments
- Contributions:
 - Uses same features for all tasks: tracking, mapping, relocalization and loop closing
 - Real time operation in large environments
 - Real time loop closing based on the optimization of a pose graph
 - Real time camera relocalization with significant invariance to viewpoint and illumination
 - New initialization procedure based on model selection
 - A survival of the fittest approach to map point and keyframe selection
- Evaluates on sequences from NewCollege, TUM RGB-D and KITTI datasets