## Supplementary Material to:

# OV<sup>2</sup>SLAM : A Fully Online and Versatile Visual SLAM for Real-Time Applications

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#### I. INTRODUCTION

This report contains figures of trajectories estimated in the experiment section of OV<sup>2</sup>SLAM paper [1]. We both provide results obtained on the training sequences of the KITTI dataset [2] and on the EuRoC dataset [3].

#### II. EUROC EXPERIMENTS

We compare the stereo version of ORB-SLAM [4] and OV<sup>2</sup>SLAM on the EuRoC dataset with real-time enforced. We show the trajectories obtained on the *Machine Hall* (MHXX) sequences in Figure 1 and on the *Vicon Room* (VX-XX) sequences in Figure 2.

We further display the trajectories estimated with the monocular version of OV<sup>2</sup>SLAM with real-time processing enforced in Figure 3 and Figure 4.

#### III. KITTI EXPERIMENTS

We display the trajectories obtained with both ORB-SLAM and OV<sup>2</sup>SLAM while enforcing real-time on the KITTI dataset [2] in Figure 5.

### REFERENCES

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- [2] A. Geiger, P. Lenz, and R. Urtasun, "Are we ready for autonomous driving? the kitti vision benchmark suite," in 2012 IEEE Conference on Computer Vision and Pattern Recognition, 2012.
- [3] M. Burri, J. Nikolic, P. Gohl, T. Schneider, J. Rehder, S. Omari, M. W. Achtelik, and R. Siegwart, "The euroc micro aerial vehicle datasets," The International Journal of Robotics Research, vol. 35, no. 10, 2016.
- [4] R. Mur-Artal and J. D. Tardós, "Orb-slam2: An open-source slam system for monocular, stereo, and rgb-d cameras," *IEEE Transactions* on Robotics, vol. 33, no. 5, 2017.

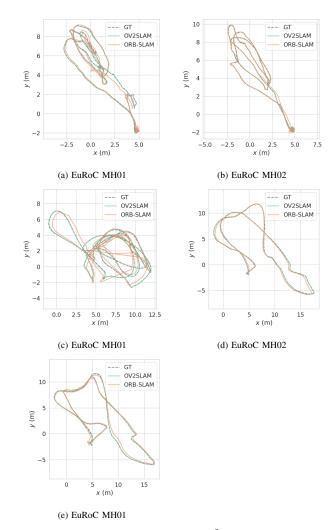


Fig. 1: Trajectories estimated with stereo OV<sup>2</sup>SLAM and ORB-SLAM in Real-Time on EuRoC Machine Hall (MHXX) sequences.

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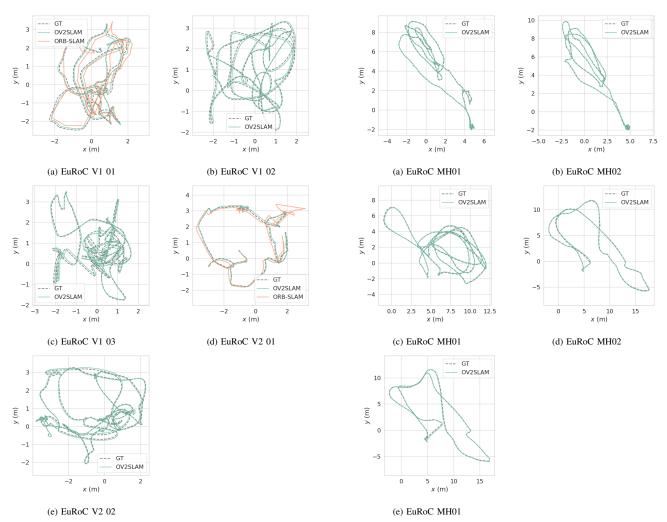


Fig. 2: Trajectories estimated with stereo  $OV^2SLAM$  and ORB-SLAM in Real-Time on EuRoC Vicon Room (VX-XX) sequences.

Fig. 3: Trajectories estimated with monocular  $OV^2SLAM$  without LC in Real-Time on EuRoC Machine Hall (MHXX) sequences.

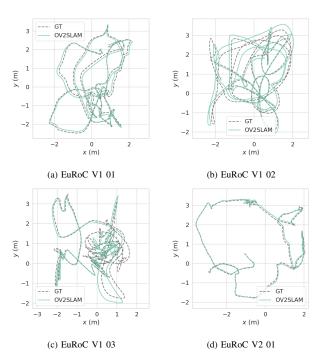


Fig. 4: Trajectories estimated with monocular  $OV^2SLAM$  without LC in Real-Time on EuRoC Vicon Room (VX-XX) sequences.

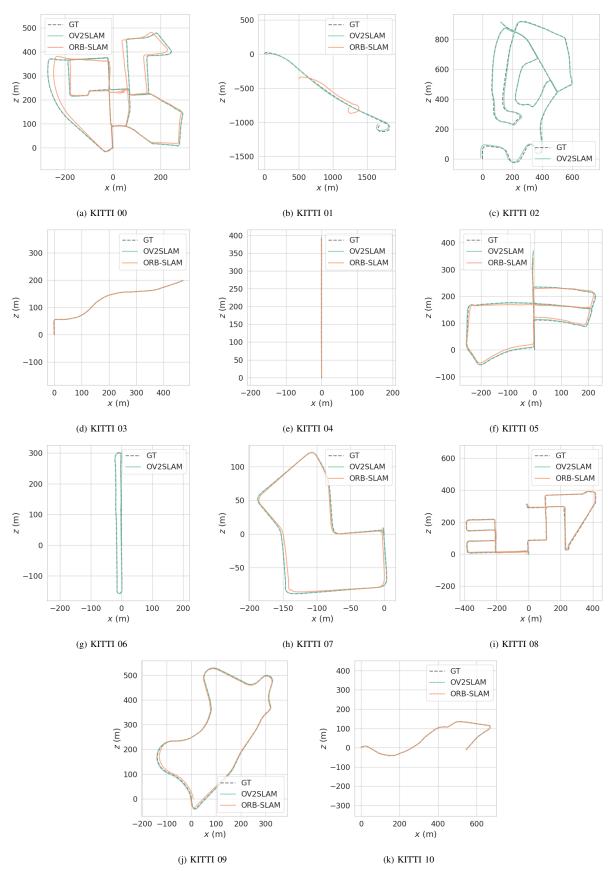


Fig. 5: Trajectories estimated with stereo OV2SLAM and ORB-SLAM in Real-Time on KITTI training set.