

Monocular Visual Odometry for Three Different View Angles by Intel Realsense T265 with the Measurement of Remote

Authors : Heru Syah Putra, Aji Tri Pamungkas Nurcahyo, Chuang-Jan Chang

Abstract : MOIL-SDK method refers to the spatial angle that forms a view with a different perspective from the Fisheye image. Visual Odometry forms a trusted application for extending projects by tracking using image sequences. A real-time, precise, and persistent approach that is able to contribute to the work when taking datasets and generate ground truth as a reference for the estimates of each image using the FAST Algorithm method in finding Keypoints that are evaluated during the tracking process with the 5-point Algorithm with RANSAC, as well as produce accurate estimates the camera trajectory for each rotational, translational movement on the X, Y, and Z axes.

Keywords : MOIL-SDK, intel realsense T265, Fisheye image, monocular visual odometry

Conference Title : ICIPACV 2022 : International Conference on Image Processing, Analysis and Computer Vision

Conference Location : Paris, France

Conference Dates : April 14-15, 2022