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Segmentation and tracking of nonplanar templates to improve VSLAM

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- A novel algorithm can handle the case where the patch encompasses more than one surface. Such cases often occur in outdoor natural scenes, which can contain many discontinuities. Even in man-made indoor environments, which typically contain planar surfaces, discontinuities can occur at the boundaries of the planes.
- The new partial plane tracking method (PPM) can estimate and track features over a larger distance, compared to the algorithm with the whole plane tracking method (WPM).

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