

Real Time Visual Loop Closure Detection

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In robotic applications of visual simultaneous localization and mapping, loop-closure detection and global localization are two issues that require the capacity to recognize a previously visited...

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Real-time visual loop-closure detection. Abstract: In robotic applications of visual simultaneous localization and mapping, loop-closure detection and global localization are two issues that require the capacity to recognize a previously visited place from current camera measurements. We present an online method that makes it possible to detect when an image comes from an already perceived scene using local shape information.

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representing loop-closure hypotheses at time t : $S_t = i$ is the event that current image I_t closes the loop with past image I_i . This implies that the corresponding viewpoints x_t and x_i are close, and that I_t and I_i share some similarities. The event $S_t = 1$ is the event that no loop-closure occurred at time t . In a probabilistic Bayesian framework,

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We demonstrate the efficiency of our solution by real-time loop-closure detection under strong perceptual aliasing conditions in an indoor image sequence taken with a handheld camera. In robotic applications of visual simultaneous localization and mapping, loop-closure detection and global localization are two issues that require the capacity to recognize a previously visited place from ...

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representing loop-closure hypotheses at time t : $S_t = i$ is the event that current image I_t "closes the loop" with past image I_i . This implies that the corresponding viewpoints x_t and x_i are close, and that I_t and I_i share some similarities. The event $S_t = 1$ is the event that no loop-closure occurred at time t . In a probabilistic Bayesian framework,

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We developed a vision-based loop-closure detection algorithm with applications to topological and metrical SLAM. Our method relies on Bayesian filtering for loop-closure probability computation, with images encoded according to the incremental bags of visual words scheme (see our indoor navigation project). The overall complexity of the designed solution scales linearly with the number of places, making it possible to detect loop-closures in real-time conditions.

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Visual-Inertial Navigation with Loop Closures Patrick Geneva , Kevin Ekenhoff y, and Guoquan Huang y Abstract Enabling real-time visual-inertial navigation in unknown environments while achieving bounded-error performance holds great potentials in robotic applications. To this end, in this paper, we propose a novel linear-complexity

~~A Linear Complexity EKF for Visual Inertial Navigation ...~~

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Real-time large scale dense visual SLAM system. Contribute to mp3guy/Kintinuous development by creating an account on GitHub. ... Disallow loop closures within this time period of the last (default 30s).-s : Size of the fusion volume (default 6m).

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amenable for real-time use in practice, to extract all the features needed for loop closure. As shown in Fig. 1, the proposed network is composed of three key parts: a VAE, a semantic segmentator, and a siamese triplet embedding (siamese network is not depicted), while the ?nal network for inference only consists of the encoder. The input to our

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Generating and visualizing ?oor plans in real-time helps the operator assess the quality and coverage of capture data. Build-ing a portable capture platform necessitates operating under limited computational resources. We present the approach used in our backpack mapping platform which achieves real-time mapping and loop closure at a 5cm resolution.

~~Real-Time Loop Closure in 2D LIDAR SLAM~~

Matching-range-constrained real-time. loop closure detection with CNNs features. Dongdong Bai^{1,2}, Chaoqun Wang^{1,2}, Bo Zhang^{1,2*}, Xiaodong Yi^{1,2}and Yuhua Tang^{1,2}. Abstract. The loop closure detection (LCD) is an essential part of visual simultaneous localization and mapping systems (SLAM). LCD is capable of identifying and compensating the accumulation drift of localization algorithms to produce an.

~~Matching range constrained real time loop closure ...~~

fast and reliable enough to close loops in real time with no dimensionality reduction, and capable of replacing generic off-the-shelf networks in state-of-the-art ConvNet-based loop closure systems. I. INTRODUCTION It is critical to perform low-latency, high-?delity, online loop closure detection (or place recognition) for real-time visual

~~Nate Merrill and Guoquan Huang - arXiv~~

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): Abstract — In robotic applications of visual simultaneous localization and mapping, loop-closure detection and global localization are two issues that require the capacity to recognize a previously visited place from current camera measurements. We present an online method that makes it possible to detect when an ...

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