Real Time Visual Loop Closure Detection

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Real Time Visual Loop Closure

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 ...

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Real-time visual loop-closure detection

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Real-Time Visual Loop-Closure Detection Adrien Angeli, St ´ephane Doncieux, Jean-Arcady Meyer Universit e Pierre et Marie Curie - Paris 6´ FRE 2507, ISIR, 4 place Jussieu, F-75005 Paris, France. lastname@isir.fr David Filliat ENSTA 32, bvd Victor, F-75015 Paris, France. david.filliat@ensta.fr Abstract In robotic applications of visual ...

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Real Time Visual Loop Closure Detection Author: www.remaxvn.com-2020-12-04T00:00:00+00:01 Subject: Real Time Visual Loop Closure Detection Keywords: real, time, visual, loop, closure, detection Created Date: 12/4/2020 3:09:36 AM

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Real Time Visual Loop Closure Detection

Our approach extends the bag of visual words method used in image recognition to incremental conditions and relies on Bayesian filtering to estimate loopclosure probability. 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.

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Real-time visual loop-closure detection - CORE

Visual loop closure detection and application to topological mapping. INTRODUCTION. Loop-closure detection is crucial for enhancing the robustness of both topological (see for example Mark Cummins work) and metrical SLAM algorithms (see for example the page of Andrew Davison). This problem consists in detecting when the robot has returned to a past ...

Loop Closure Detection - ENSTA Paris

tion by real-time loop-closur e detection under str ong per ceptual aliasing conditions in an indoor image sequence tak en with a ... visual loop-closure and global localization, ...

Real-T ime V isual Loop-Closur e Detection

recall of loop-closure detection, but also keeps high real time. Currently, visual loop-closure detection is mainly based on the similarity of image descriptors generated by the features in images [8]. The most popular approach is BoW (Bags of words) [9-12]. For example, in order to speed up loop-closure detection, the visual dictionary tree

Visual Loop Closure Detection with Scene Mutual ...

loop closure, which is real-time and scalable, with the database built on-line and incrementally. Our approach is based on both the CNN features and SURF features, and using one type of proximity graph, named Hierarchical Nav- ... visual loop closure detection is the BoW model [7], [8],

Fast and Incremental Loop Closure Detection Using ...

loop-closure is accepted or rejected. The results demon- strate the method’s accuracy and real-time performance by testing several videos collected from a digital camera fixed on vehicles in indoor and outdoor environments. Keywords loop-closure detection, simultaneous localiza- tion and mapping, clustering tree-RSOM, attributed graph 1 ...

A Precise and Real-Time Loop-closure Detection for SLAM ...

Real-Time Loop Closure in 2D LIDAR SLAM Wolfgang Hess 1, Damon Kohler , Holger Rapp , Daniel Andor1 Abstract—Portable laser range-finders, further referred to as LIDAR, and simultaneous localization and mapping (SLAM) are an efficient method of acquiring as-built floor plans. Generating and visualizing floor plans in real-time helps the

Real-Time Loop Closure in 2D LIDAR SLAM

Lightweight Unsupervised Deep Loop Closure. Nate Merrill and Guoquan Huang. Abstract—Robust efficient loop closure detection is essential for large-scale real-time SLAM. In this paper, we propose a novel unsupervised deep neural network architecture of a feature embedding for visual loop closure that is both reliable and compact.

Lightweight Unsupervised Deep Loop Closure

Matching-range-constrained real-time loop closure detection with CNNs features Dongdong Bai1,2, Chaoqun Wang 1,2, Bo Zhang1,2*, 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).

Matching-range-constrained real-time loop closure ...
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 consistent map if the loops are checked correctly. Deep convolutional neural networks (CNNs) have outperformed state-of-the-art solutions that use traditional hand ...

Matching-range-constrained real-time loop closure ...
Abstract. Loop closure detection plays a vital role in visual simultaneous localization and mapping (SLAM), since it can reduce the accumulated errors. Handcrafted feature-based methods for loop closure detection have the weakness of lack of robustness with respect to illumination and scale changes. In recent years, the Convolutional Neural ...

Loop Closure Detection for Visual SLAM Using Simplified ...
the locations used to detect loop closures, in order to limit the time required to search through previously visited loca-tions. This paper describes our memory management approach to accomplish appearance-based loop closure detection, in a Bayesian framework, with real-time constraints for large-scale and long-term operation.