



SURF is a speeded-up robust feature detector that uses scale-invariant corner detectors. It is much faster than SIFT but is less accurate. - version 2.1 (2011-09-09) : a lot of fixes and improvements in the ported code, note that in this version "Detectors" box is now disabled for "surf" Feature trackers (GoodFeaturesToTrack, MSER) use good features (corners) and tracking, they are really sensitive to the camera's motion and noise. FAST is a realtime feature detector based on SIFT but without any tracking or any corner extraction. It is less accurate than SURF but much faster. - version 2.1 (2011-09-09) : a lot of fixes and improvements in the ported code, note that in this version "Detectors" box is now disabled for "fast" Dense is a robust feature detector based on SIFT but without any tracking or any corner extraction. It is less accurate than SURF but much faster. - version 2.1 (2011-09-09) : a lot of fixes and improvements in the ported code, note that in this version "Detectors" box is now disabled for "dense" - a lot of fixes, improvements and refactoring - parallelization on multicore CPU - debug and usability improvements - mr\_create\_matrix\_cmnv() and mr\_destroy\_matrix() - Web-camera support - V4L2 capture by default Appendix: some useful links for programmers - Prerequisite: To compile portable version, you need to install Qt 4.7.x and OpenCV 2.1.0 and dependencies as described above - Also you need to edit lines of the source code to set a serial com port (default/stdio) or a parallel com port (simply paste '/dev/lpp' at end of lines). - Launch qmake and cmake (on Windows) or configure, make, make install (on Linux). - To recompile software and replace or to edit the source code, call: - make menuconfig (on Linux) and configure, make, make install (on Windows). - If you have another OpenCV installed, you can make it to dynamically load (

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Samples: OpenCV 2.4.3 Qt 4.8.6 Features picker: Camera: Acquisition frame: Stabilization: Centering: Demo file: //using cv::*; using namespace cv; int main(int argc, char *argv[]) {
VideoCapture capture; capture.open(0); // needed for Calibration if (!capture.isOpened()) return -1; cout > frame; cvtColor(frame, gray, CV_BGR2GRAY); // calibrate camera Mat
cameraMatrix; Mat distCoeffs, rvecs, tvecs; Mat cameraMatrix1(4, 4, CV_64F); Mat distCoeffs1, rvecs1, tvecs1; cameraMatrix1.setTo(cv::Mat::ones(4, 4, CV_64F)); distCoeffs1 =
cv::Mat::zeros(4, 1, CV_64F); rvecs1 = cv::Mat::zeros(3, 1, CV_64F); 09e8f5149f
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The main components are: - a listview with a list of the detected "objects", - a search button, - a list view with the matching "features". What's new: - ability to change parameters (cameraId, scale, etc) - ability to match features by markers (not all pixels) - automatically select "Best" as the preferred option (see Settings menu) - removeObject from "Menu" -> "Run", - "Run" -> "Play" when "Run" is pressed. Which versions of SIFT and SURF are supported in portableFind-Object? The command line OpenCV version is 2.0.9 or later, and Qt 4.8 or later. Disclaimer: No warranty whatsoever is granted and no liability is accepted for the usage of the OpenCV port. A: I have found a solution. It seems that OpenCV2.0.9 is not the only version that matches the QT4.8 but you can replace OpenCV3.0.0 with the version 2.0.9. Qmake file: QT += core gui greaterThan(QT\_MAJOR\_VERSION, 4): QT += widgets TARGET = YourApplication TEMPLATE = app SOURCES += main.cpp\ mainwindow.cpp HEADERS += mainwindow.h FORMS += mainwindow.ui Mainwindow.h: #ifndef MAINWINDOW\_H #define MAINWINDOW\_H #include #include namespace Ui { class MainWindow; } class MainWindow : public QMainWindow { Q\_OBJECT public: explicit MainWindow(QWidget \*parent = 0); ~MainWindow(); private: Ui::MainWindow \*ui; public slots: void on\_pushButton\_clicked(); }; #endif // MAINWINDOW\_H Mainwindow

What's New in the?

==DESIGN== Find-Object can be easily integrated into your existing code, no special skills are required to use this code, hence it can be used by anyone. With Find-Object we present you one of the most powerful feature detector/descriptor implementations that currently exists in the market. ==FEATURES== - :proximity feature: proximity feature uses distance between image pixel of object and pixel used to detect this object. By default, it is an average of the minimal and maximum distances between object pixels and feature detections; it can be changed in the code. The min-max values may range from 0 to MAX\_PROXIMITY or to a user-defined maximum. Thus, you can force to return features only in a particular region of interest or in any region at all. - :texture feature: it computes a texture code for every image pixel. By default, it is computed as an average of the smallest and largest texture values of each pixel of the image. You can change the parameters by hand. Note that the above mentioned min-max range applies to the min and max textures as well. - :color feature: it is an extension of texture feature that uses color similarity instead of texture similarity (default). You can change the parameters by hand. Note that the above mentioned min-max range applies to the min and max colors as well. - :hierarchical feature: it is a type of feature detector that uses hierarchical classification tree. Once it extracts features, it splits each region in its root, thus partitioning the image in child regions, and so on. The splitting process is done in recursive way: each region is divided into smaller ones and sub-divided until either a) there are less than, or equal to, a defined number of regions, or b) any region becomes too small. Note that you can set a maximum number of sub-regions allowed in a region. The parameter denoting this limit can take integer or real values. If it is integer, the feature will be extracted for each region and

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**System Requirements For Portable Find-Object:**

OS: Windows XP Windows XP Processor: Intel Core 2 Duo (1.7 GHz, 2.0 GHz, or 2.5 GHz) Intel Core 2 Duo (1.7 GHz, 2.0 GHz, or 2.5 GHz) Memory: 2 GB RAM 2 GB RAM Hard Disk Space: 2 GB available space 2 GB available space Video: NVIDIA GeForce 8800 GT or ATI Radeon X1950 NVIDIA GeForce 8800 GT or ATI Radeon X1950 Sound: DirectX 9 Compatible DirectX compatible sound card and speakers DirectX

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