

OpenCV: Examples of Use and New Applications in Stereo, Recognition and Tracking

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Abstract

The Open Source Computer Vision Library (OpenCV) is an open source, free for research AND commercial use, computer vision library started by Intel, now an open community effort with Intel contractors responsible for code, documentation and bug fix integration as well as official builds. OpenCV is written in C/C++ but will automatically load optimized assembly language dynamic libraries included with the code. It now also has a Matlab interface for convenient use with research code. See <http://www.intel.com/research/mrl/research/opencv/> for information on how to get the code and/or join the user group.

In this talk, we overview the library content, give usage examples in C and Matlab and then present some new work supporting stereo vision, face recognition, face feature tracking and Audio-Visual speech recognition.