



OpenCV跨平台计算机视觉库

OpenCV中国团队

主办单位：



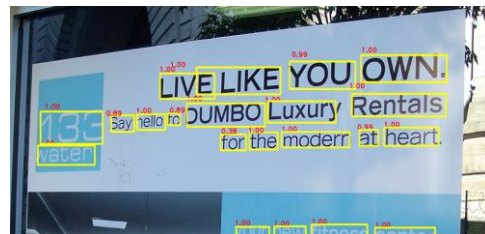
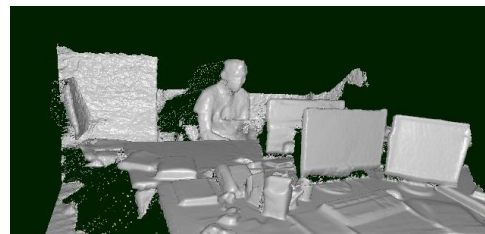
中国科学院软件研究所
Institute of Software Chinese Academy of Sciences



openEuler

OpenCV 是 ...

- 最受欢迎的计算机视觉库之一, <http://opencv.org>
- 很成熟 (1999 – present)
- 研究或商业使用均为免费 (BSD协议)
(即将更换使用Apache 2.0)
- C/C++语言实现; 支持Python, Java, Javascript
- 较大但模块化: 一百多万行代码, 70多个模块
- SourceForge上两千多万次下载, github <http://github/opencv>上每周1万次下载
- 周边生态丰富: 有大型社区, 很多相关书籍, 在线课程等
- 仍在活跃开发: 自2012起已有超过1万多个patch
(平均每天多于5个)
- 非常稳定和高效



开发与贡献

美国湾区



Google Summer of Code



Open Source Vision Foundation ([OSVF](#));
[OpenCV.org](#)

中国深圳



SHENZHEN INSTITUTE
of ARTIFICIAL INTELLIGENCE AND ROBOTICS for SOCIETY
深圳市人工智能与机器人研究院

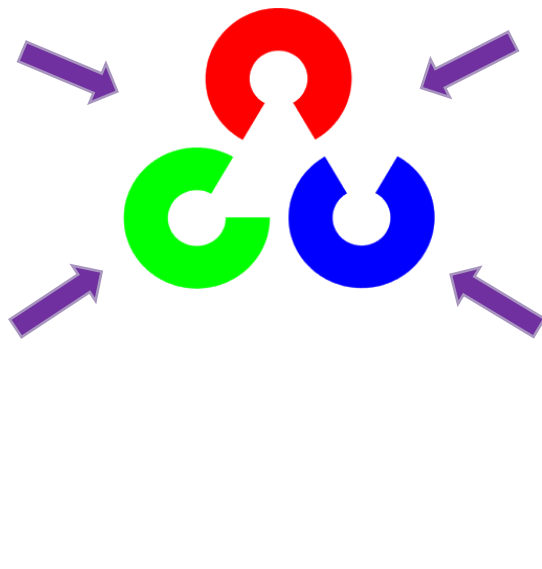


[OpenCV.org.cn](#)
(2019年9月成立)

俄罗斯
下诺夫哥罗德



Core OpenCV team
@ Intel Russia



社区
通过github每天提交2-3个patch

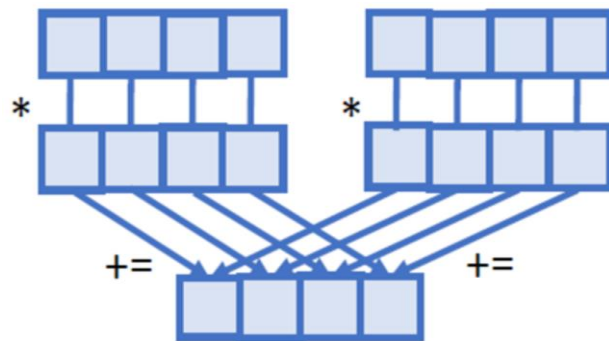
项目ID: 2020095

Write a tutorial about using universal intrinsics

Expected outcomes:

A tutorial and source code that will explain how to use the universal intrinsics.

Difficulty: Medium



项目ID: 2020096

Create NuGet package for OpenCV and OpenCV contrib

Expected outcomes:

- Scripts to automatically generate 2 nuget packages.
- Publish OpenCV nuget packages at [NuGet Gallery](#).

Difficulty: Medium



项目ID: 2020097

Support Audio IO module

Expected outcomes:

Support audio input/output module for Windows or MacOS family operating system.

Difficulty: Medium

项目ID: 2020098

Implementation of QR-codes decoder and encoder

Expected outcomes:

- Integration of decoding functionality of QR codes.
- Create encoding functionality and API with regression and performance tests.

Difficulty: Medium

项目ID: 2020099

Data augmentation

Expected outcomes:

- Create a new OpenCV module for data transformation.
- Write tutorials on Python wrappers of the functionalities.

Difficulty: Hard

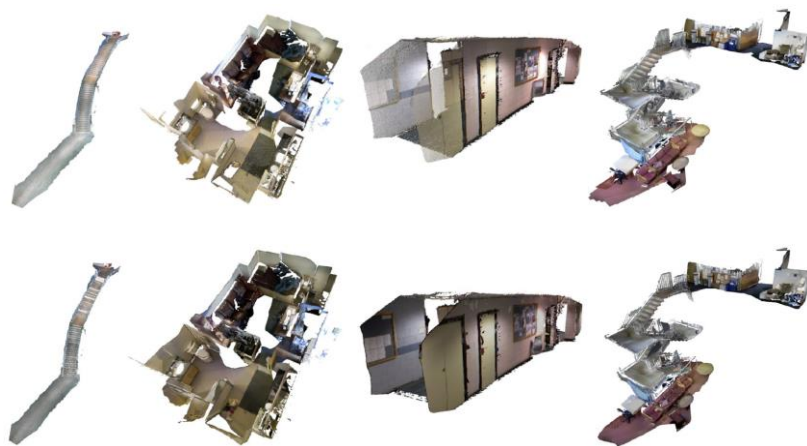
项目ID: 2020194

Incremental and Batch Simplification of Point Clouds

Expected outcomes:

- Implement batch simplification
- Implement incremental.
- Implement texture mapping. (optional)
- Extend simplification beyond planes to consider cylinders and sphere fitting. (optional)

Difficulty: Medium



T. Whelana et al., Incremental and Batch Planar Simplification of Dense Point Cloud Maps

问答环节

OpenCV China微信公众号: OpenCVTeam

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感谢



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