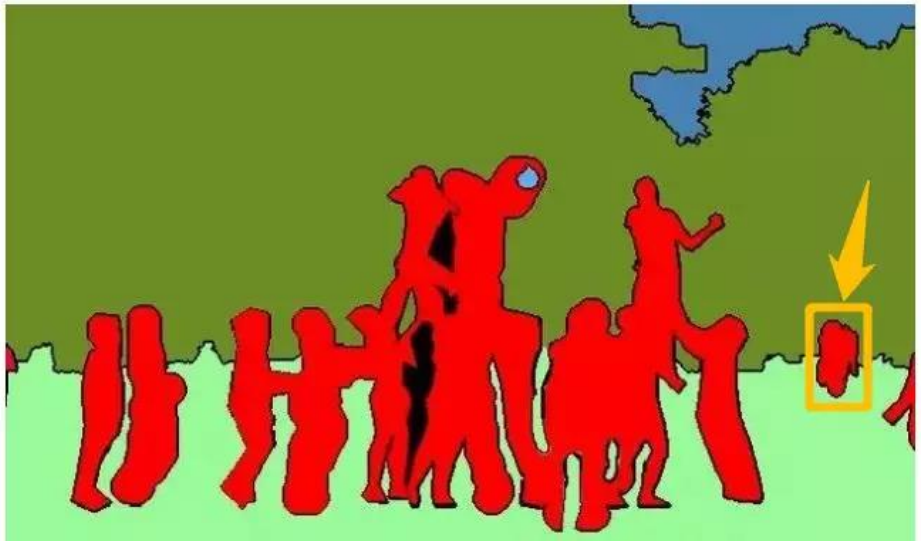
Pytorch版Mask R-CNN
图像实例分割实战
训练自己的数据集
CSDN

原图

语义分割



实例分割

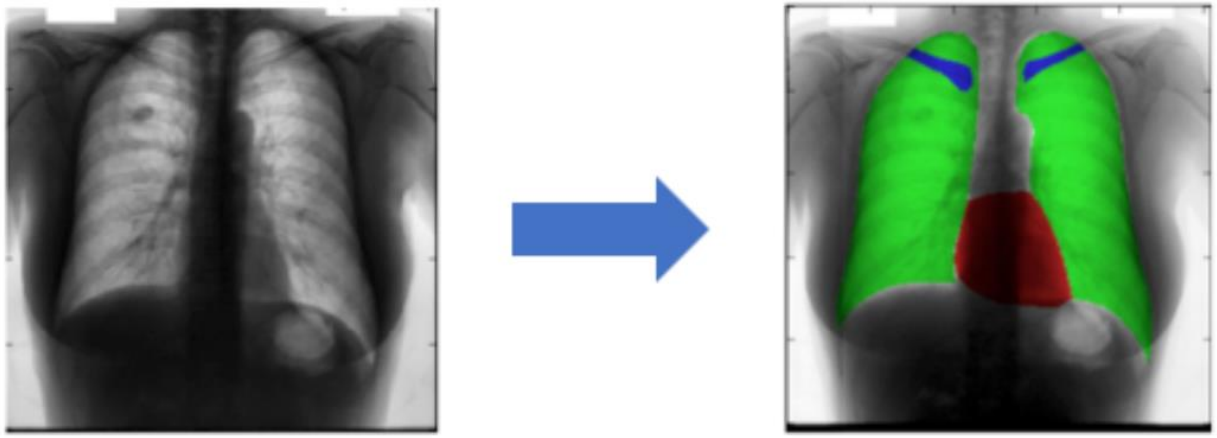
全景分割

Things and stuff

图像分割应用

自动驾驶
Autonomous vehicles

医学图像诊断
Medical image diagnostics

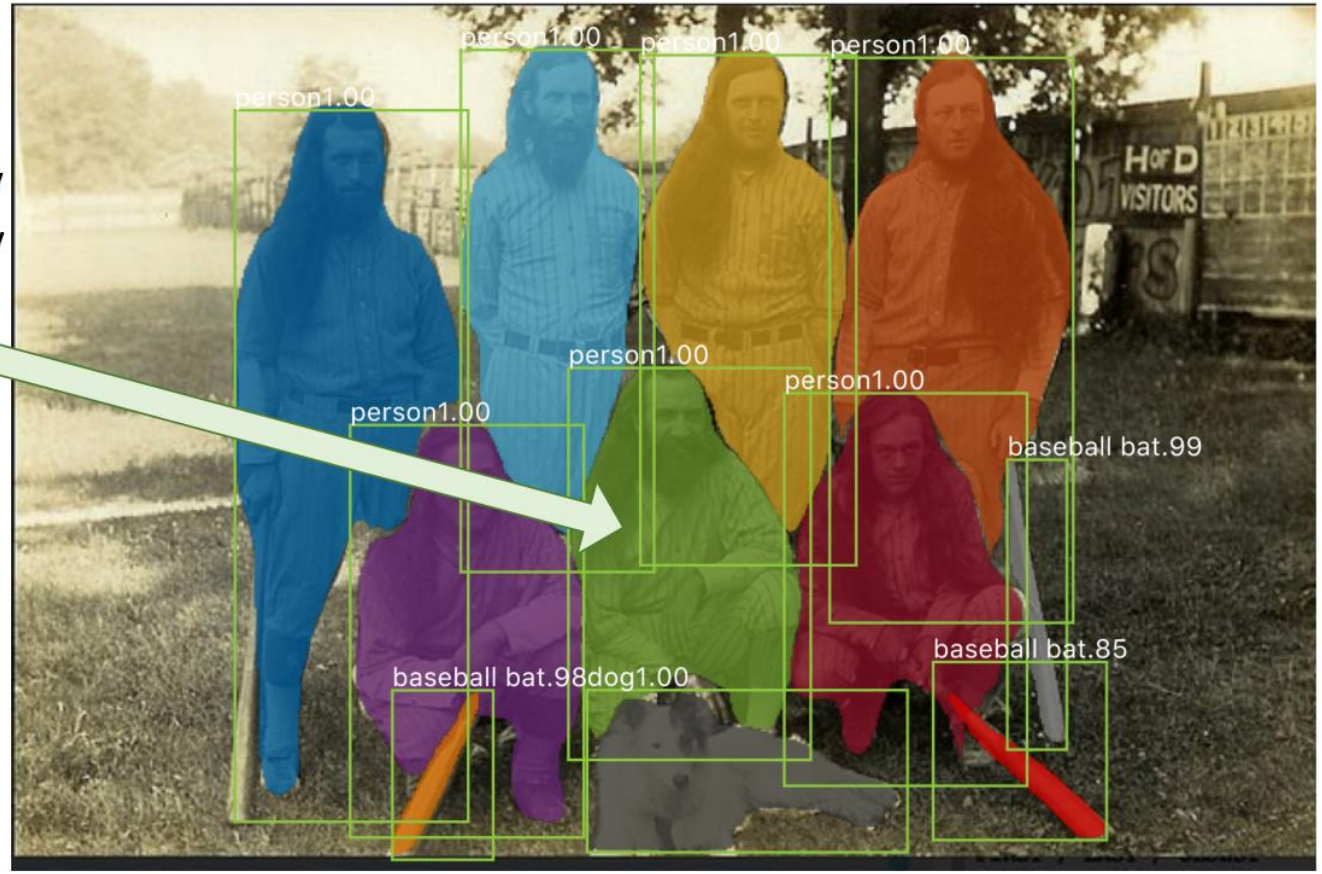


Input Image

Segmented Image

Mask R-CNN Examples

surrounded by same-category objects



Mask R-CNN on COCO test images, using ResNet-101-FPN and running at 5 fps, with 35.7 mask AP

CSDN

FROM RESEARCH TO PRODUCTION

An open source machine learning framework that accelerates the path from research prototyping to production deployment.

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KEY FEATURES & CAPABILITIES

See all Features >

TorchScript

TorchScript provides a seamless transition between eager mode and graph mode to accelerate the path to production.

Distributed Training

Scalable distributed training and performance optimization in research and production is enabled by the torch.distributed backend.

Python-First

Deep integration into Python allows popular libraries and packages to be used for easily writing neural network layers in Python.

Tools & Libraries

A rich ecosystem of tools and libraries extends PyTorch and supports development in computer vision, NLP and more.

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GitHub, Inc. [US] | https://github.com/facebookresearch/maskrcnn-benchmark
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Fast, modular reference implementation of Instance Segmentation and Object Detection algorithms in PyTorch.

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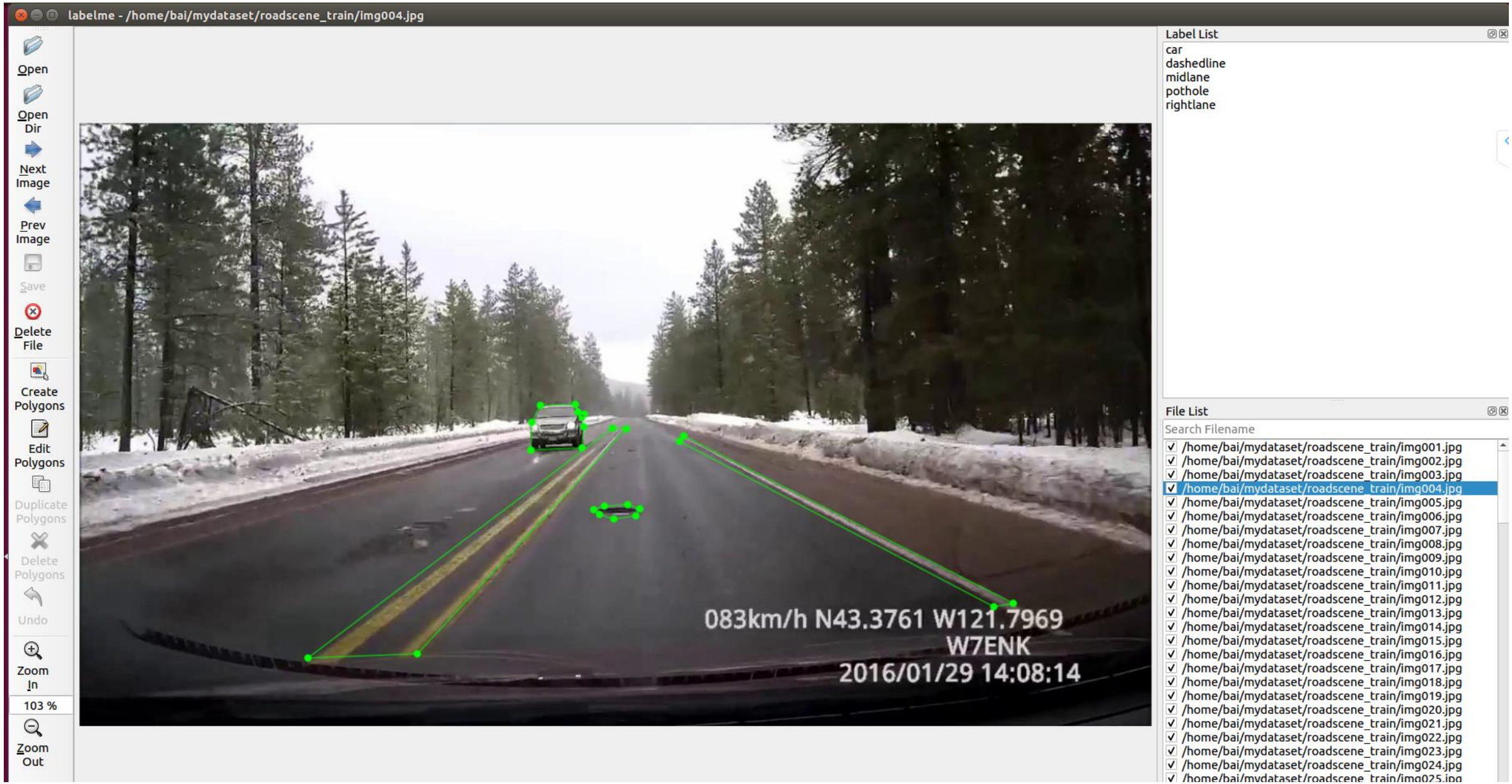
botcs Merge pull request #828 from osanwe/test_period ... Latest commit 0ce8f6f 7 days ago

YES
YOU
CAN

课程内容

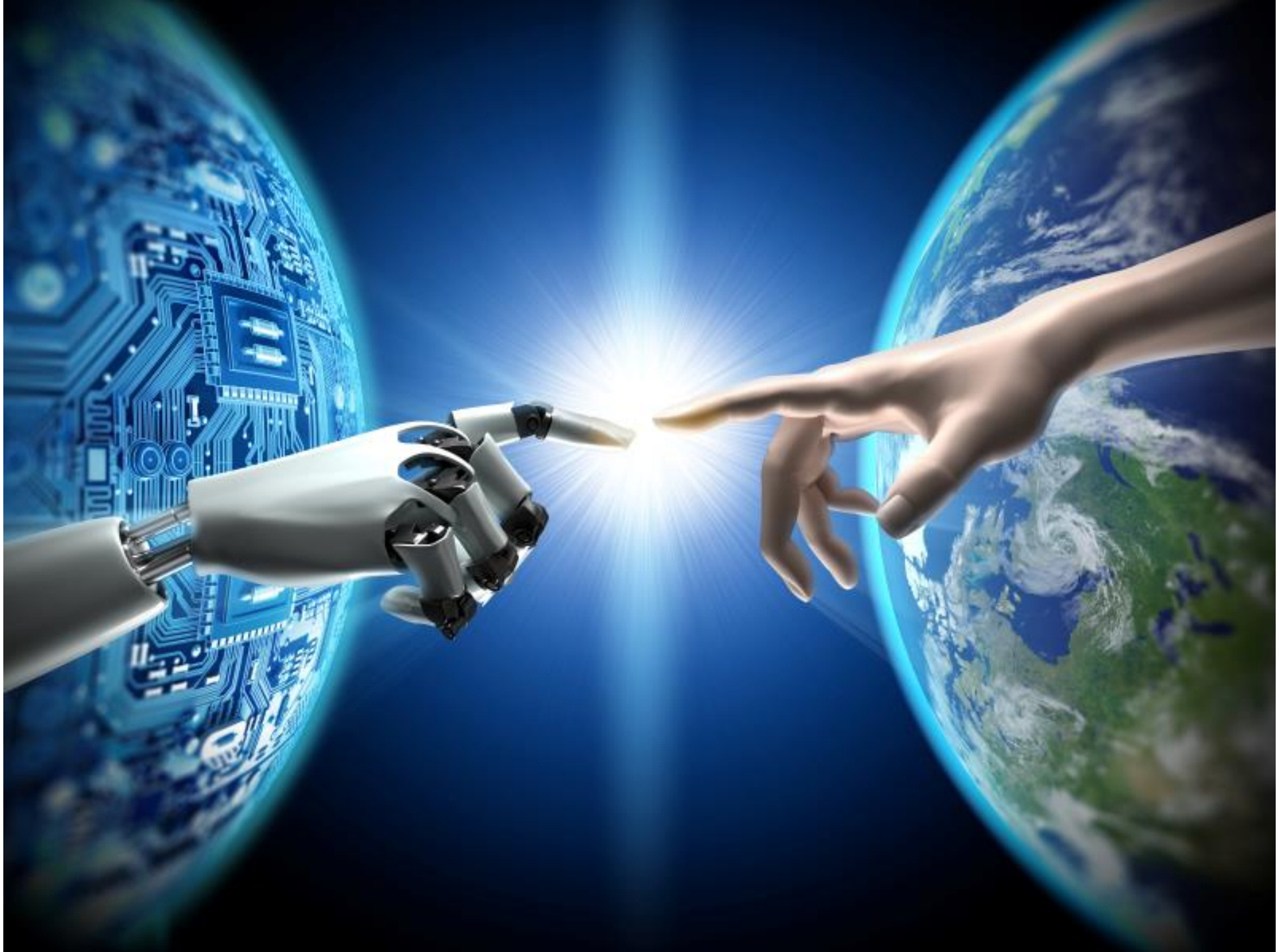
- Mask R-CNN实例分割原理
- 开发环境安装(Pytorch; maskrcnn-benchmark)
- 官方demo实践
- labelme图像标注工具
- 图像标注及COCO数据格式转换
- Roadscene（多物体）实例分割项目实战
  - 使用预训练权重在自己的数据集上进行迁移学习
- 性能指标统计、demo演示、图片及视频测试

图像标注工具labelme



Roadscene（多类物体）实例分割项目实战

Roadscene（多类物体）实例分割项目实战



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