8篇CVPR2019论文开源合集（含目标检测/目标跟踪/语义分割/人脸检测和人体姿态估计）

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前言

CVer 之前推了近百篇CVPR 2019论文，部分内容如下：

CVPR2019 | 12篇目标检测最新论文（FSAF/GS3D/Libra R-CNN/Stereo R-CNN和GIoU等）
CVPR2019 | 60 篇论文速递（涵盖目标检测、语义分割和目标跟踪和GAN等方向）
CVPR2019 | 10篇论文速递（涵盖全景分割、实例分割和姿态估计等方向）

CVPR 2019上的论文代表了CV领域的顶级工作，有很多创新点。但对我们CVer来说，如果论文不开源，那么对这篇论文的兴趣度就会日渐减少。反而，开源会有持续激发性，毕竟show me your code来得很干脆实在，也方便后续魔改。

本文将分享收集到的CVPR 2019 已开源paper，并将内容同步上传到 **CVPR2019-Code**上。如果想第一时间了解开源代码，那么大家 star/fork即可（点击阅读原文，也可直接访问）：

https://github.com/amusi/CVPR2019-Code

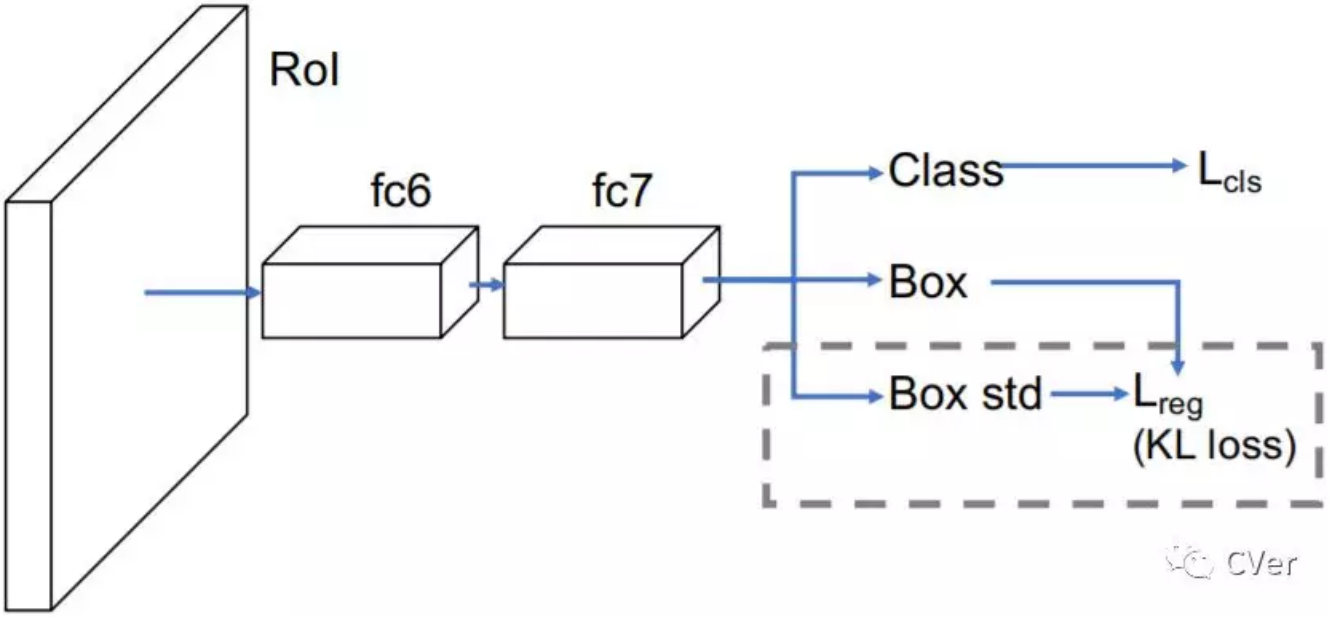
本文介绍开源的CV方向主要有：目标检测、目标跟踪、语义分割、实例分割、人脸检测和人体姿态估计。

目标检测

Bounding Box Regression with Uncertainty for Accurate Object Detection

arXiv：https://arxiv.org/abs/1809.08545

github：https://github.com/yihui-he/KL-Loss



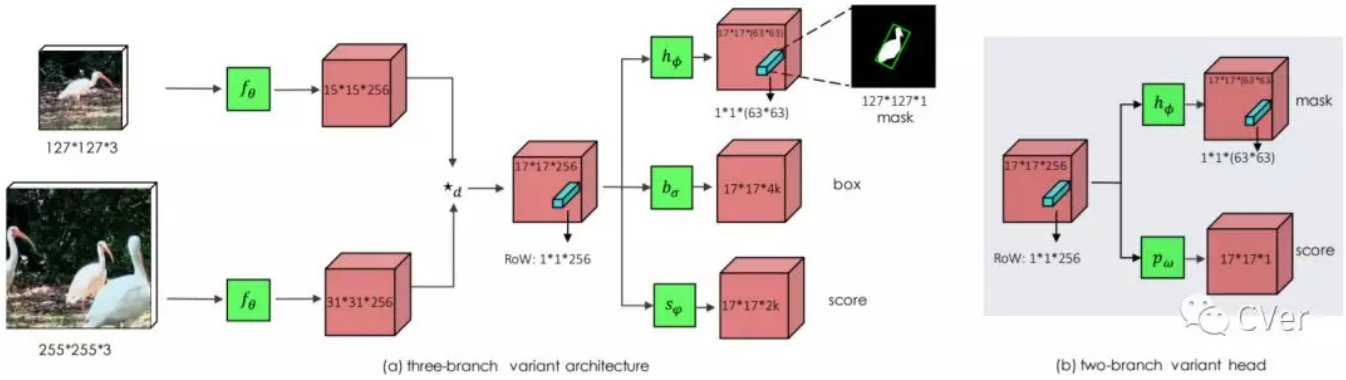
目标跟踪

Fast Online Object Tracking and Segmentation: A Unifying Approach

arXiv：https://arxiv.org/abs/1812.05050

github：https://github.com/foolwood/SiamMask

homepage：http://www.robots.ox.ac.uk/~qwang/SiamMask



语义分割

Decoders Matter for Semantic Segmentation: Data-Dependent Decoding Enables Flexible Feature Aggregation

arXiv：https://arxiv.org/abs/1903.02120

github（非官方）：https://github.com/LinZhuoChen/DUpsampling

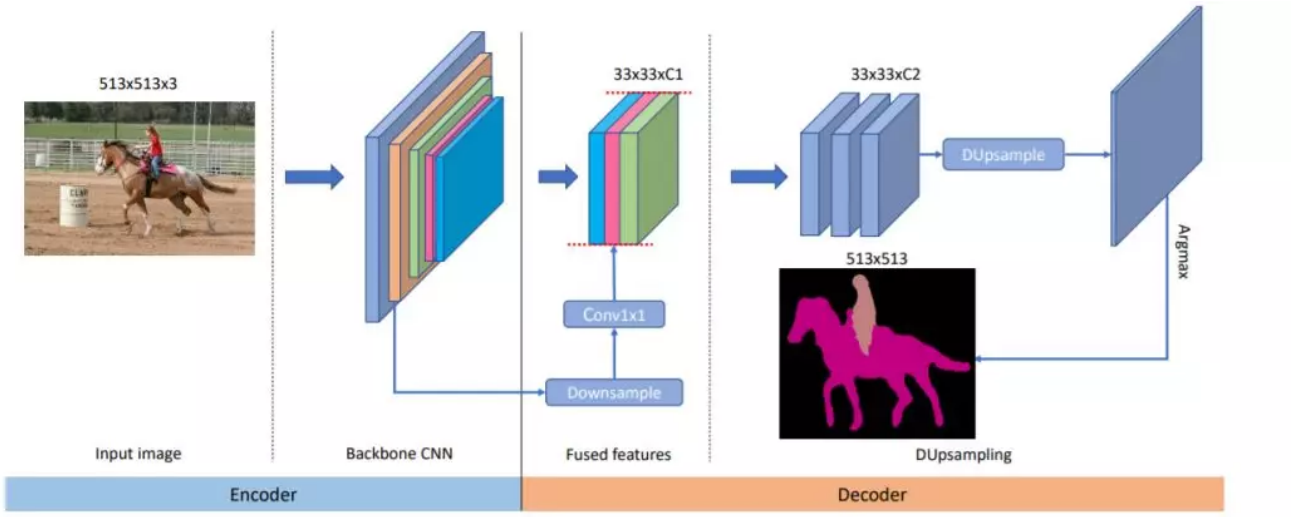


Figure 2: The framework with our proposed decoder. The major differences from the previous framework shown in Fig. 1 are 1) fused features are downsampled to the lowest features resolution before merging. 2) The incapble bilinear is replaced with our proposed DUpsampling to recover the full-resolution prediction.

Dual Attention Network for Scene Segmentation

arXiv：https://arxiv.org/abs/1809.02983

github：https://github.com/junfu1115/DANet

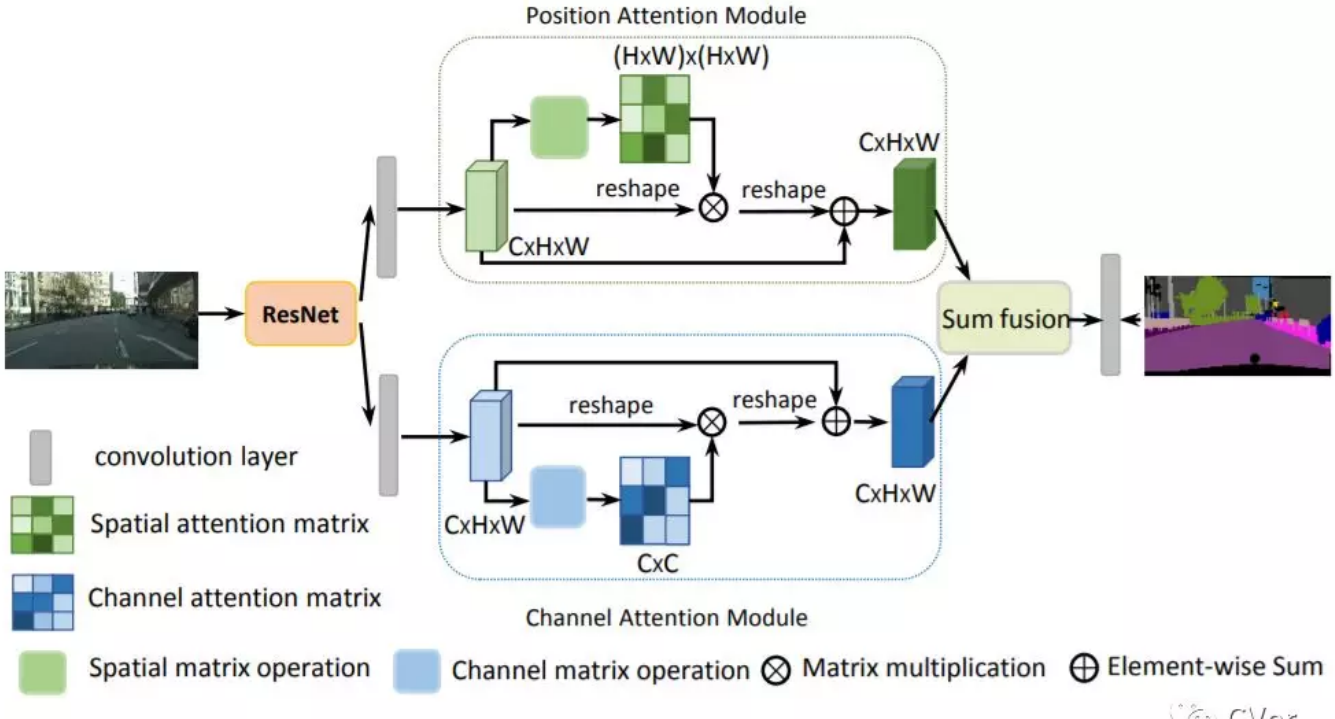
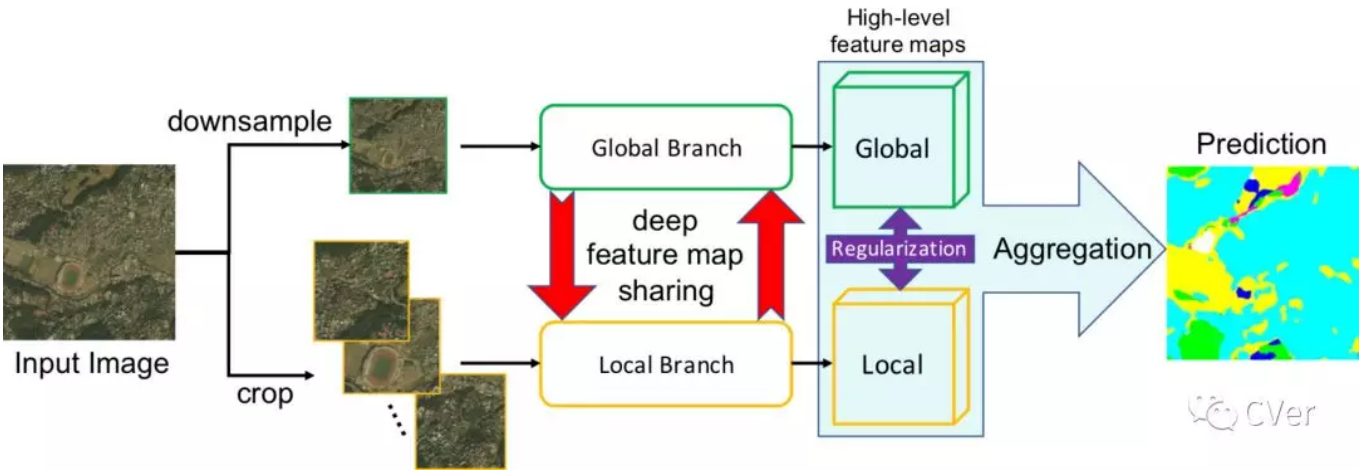


Figure 2: An overview of the Dual Attention Network. (Best viewed in color)

Collaborative Global-Local Networks for Memory-Efficient Segmentation of Ultra-High Resolution Images

arXiv：None

github：https://github.com/chenwydj/ultra_high_resolution_segmentation

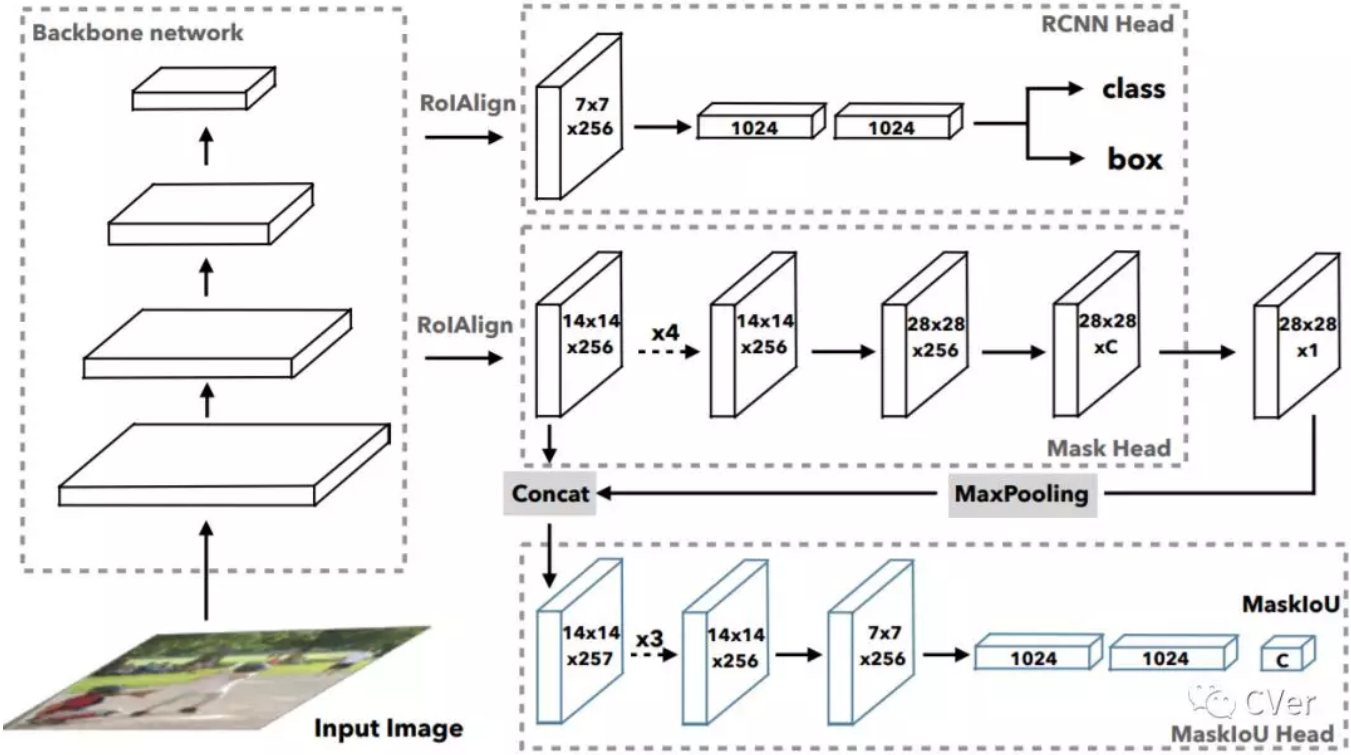


实例分割

Mask Scoring R-CNN

arXiv：https://arxiv.org/abs/1903.00241

github：https://github.com/zjhuang22/maskscoring_rcnn



人脸检测

DSFD: Dual Shot Face Detector

arXiv：https://arxiv.org/abs/1810.10220

github：https://github.com/TencentYoutuResearch/FaceDetection-DSFD

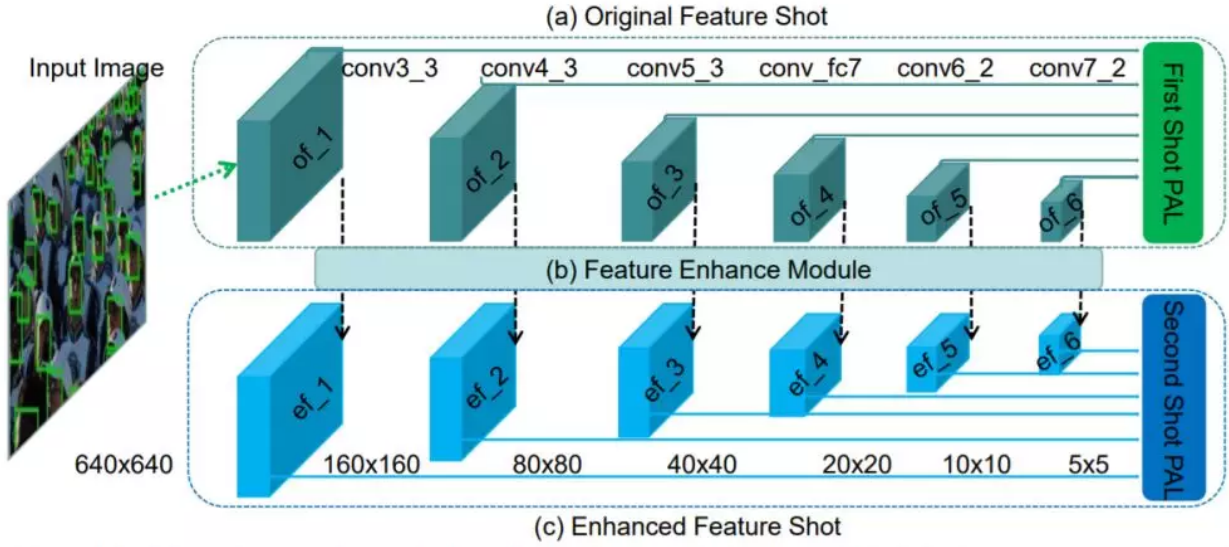


Figure 2: Our DSFD framework uses a Feature Enhance Module (b) on top of a feedforward VGG16 architecture to generate the enhanced features (c) from the original features (a), along with two loss layers named first shot PAL for the original features and second shot PAL for the enchanted features.

人体姿态估计

Deep High-Resolution Representation Learning for Human Pose Estimation

arXiv：https://arxiv.org/abs/1902.09212

github：https://github.com/leoxiaobin/deep-high-resolution-net.pytorch

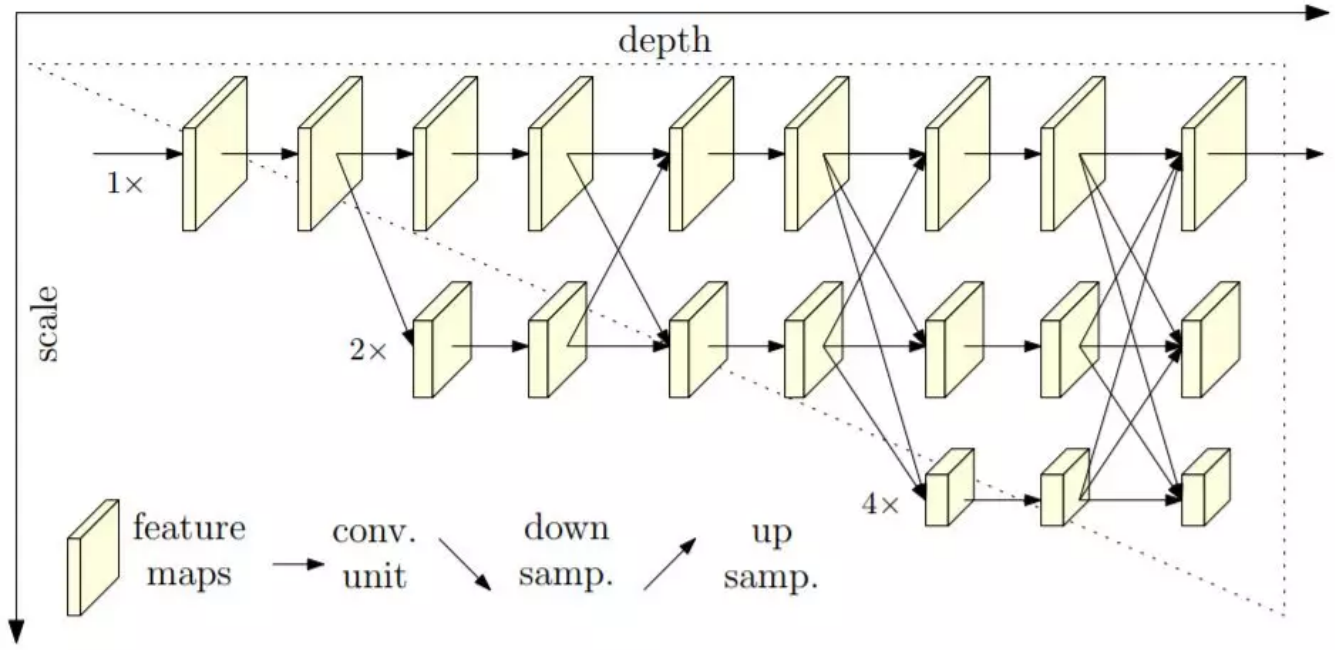


Figure 1. Illustrating the architecture of the proposed HRNet. It

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https://github.com/amusi/CVPR2019-Code

CVer学术交流群

扫码添加CVer助手，可申请加入**CVer-目标检测交流群、图像分割、目标跟踪、人脸检测&识别、OCR、超分辨率、SLAM、医疗影像、Re-ID和GAN等群。一定要备注：研究方向+地点+学校/公司+昵称**（如目标检测+上海+上交+卡卡）

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