

作业1

题目：基于RTMPose的耳朵穴位关键点检测

背景：根据中医的“倒置胎儿”学说，耳朵的穴位反映了人体全身脏器的健康，耳穴按摩可以缓解失眠多梦、内分泌失调等疾病。耳朵面积较小，但穴位密集，涉及耳舟、耳轮、三角窝、耳甲艇、对耳轮等三维轮廓，普通人难以精准定位耳朵穴位。

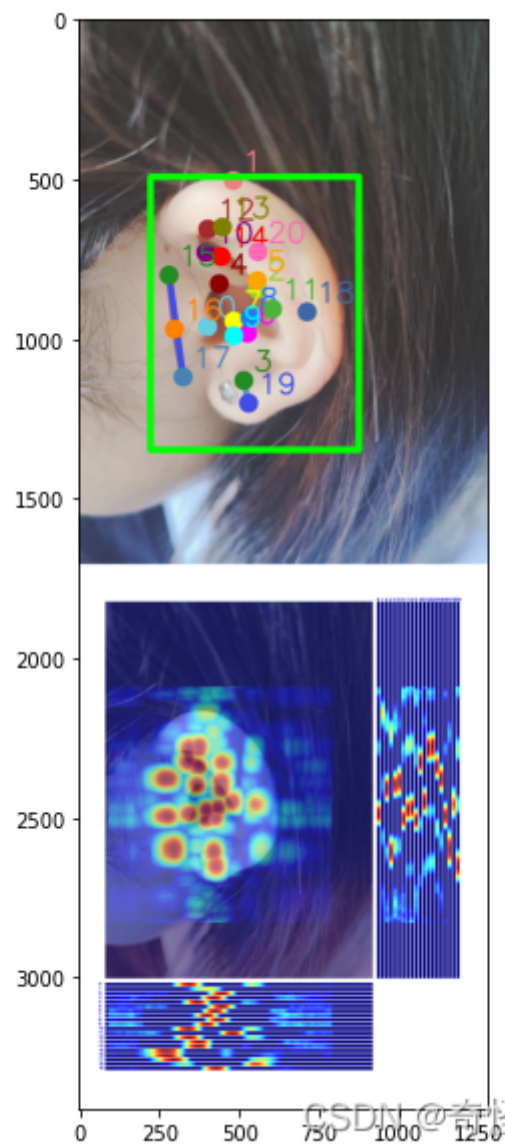
任务

- 1.Labelme标注关键点检测数据集（子豪兄已经帮你完成了）
 - 2.划分训练集和测试集（子豪兄已经帮你完成了）
 - 3.Labelme标注转MS COCO格式（子豪兄已经帮你完成了）
 - 4.使用MMDetection算法库，训练RTMDet耳朵目标检测算法，提交测试集评估指标
 - 5.使用MMPose算法库，训练RTMPose耳朵关键点检测算法，提交测试集评估指标
 - 6.用自己耳朵的图像预测，将预测结果发到群里
 - 7.用自己耳朵的视频预测，将预测结果发到群里
- 需提交的测试集评估指标（不能低于baseline指标的50%）

- 目标检测Baseline模型（RTMDet-tiny）

| | | | | | |
|-------------------|------|------------------|-------------|---------------|----------|
| Average Precision | (AP) | @[IoU=0.50:0.95 | area= all | maxDets=100] | = 0.720 |
| Average Precision | (AP) | @[IoU=0.50 | area= all | maxDets=100] | = 0.970 |
| Average Precision | (AP) | @[IoU=0.75 | area= all | maxDets=100] | = 0.898 |
| Average Precision | (AP) | @[IoU=0.50:0.95 | area= small | maxDets=100] | = -1.000 |
| Average Precision | (AP) | @[IoU=0.50:0.95 | area=medium | maxDets=100] | = -1.000 |
| Average Precision | (AP) | @[IoU=0.50:0.95 | area= large | maxDets=100] | = 0.720 |
| Average Recall | (AR) | @[IoU=0.50:0.95 | area= all | maxDets= 1] | = 0.752 |
| Average Recall | (AR) | @[IoU=0.50:0.95 | area= all | maxDets= 10] | = 0.752 |
| Average Recall | (AR) | @[IoU=0.50:0.95 | area= all | maxDets=100] | = 0.760 |
| Average Recall | (AR) | @[IoU=0.50:0.95 | area= small | maxDets=100] | = -1.000 |
| Average Recall | (AR) | @[IoU=0.50:0.95 | area=medium | maxDets=100] | = -1.000 |
| Average Recall | (AR) | @[IoU=0.50:0.95 | area= large | maxDets=100] | = 0.760 |

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plt.show()
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