**GBR anchor**

**1.DBSCAN\_anchor**

考虑yolov5的kmean聚类性能一般，采用DBSCAN加人工判断获取anchor。

Anchor聚类只用object\_size\_cluster.py脚本objectSizeCluster类，我的实验中聚类参数总结如下

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 全部 | h/w<=1 | h/w>1 |

原图尺寸为720，1280，通过DBSCAN聚类得到

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 最大值分位值 | 0.1 | 0.25 | 0.40 | 0.50 | 0.60 | 0.75 | 0.9 |
| h/w<=1 | 26,28 | 30,35 | 35,40 | 38,43 | 42,48 | 50,57 | 60,66 |
| 调整后 | 26,31 | 31,38 | 35,43 | 38,48 | 41,50 | 48,57 | 57,69 |
| h/w>1 | 32,25 | 38,31 | 44,35 | 48,38 | 53,42 | 60,50 | 72,60 |
| 调整后 | 31,27 | 37,31 | 42,36 | 44,38 | 48,41 | 56,49 | 64,57 |

额外附加10,13, 72,80, 108,90，100,120, 138,180, 240,200最终采用结果如下

#anchors:

# - [10,13, 26,31, 38,31] # P3/8

# - [35,43, 38,48, 52,45] # P4/16 <== 来自0.6和0.75的均值

# - [57,69, 72,80, 108,90] # P5/32

# - [100,120,138,180,240,200] # P6/64