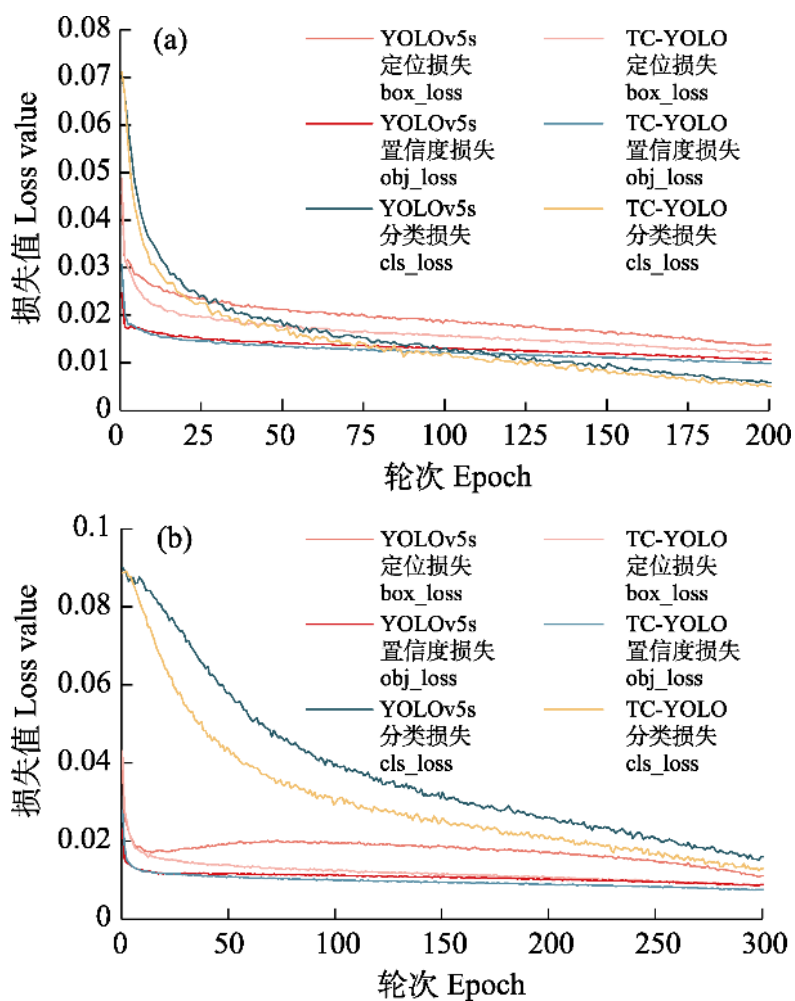


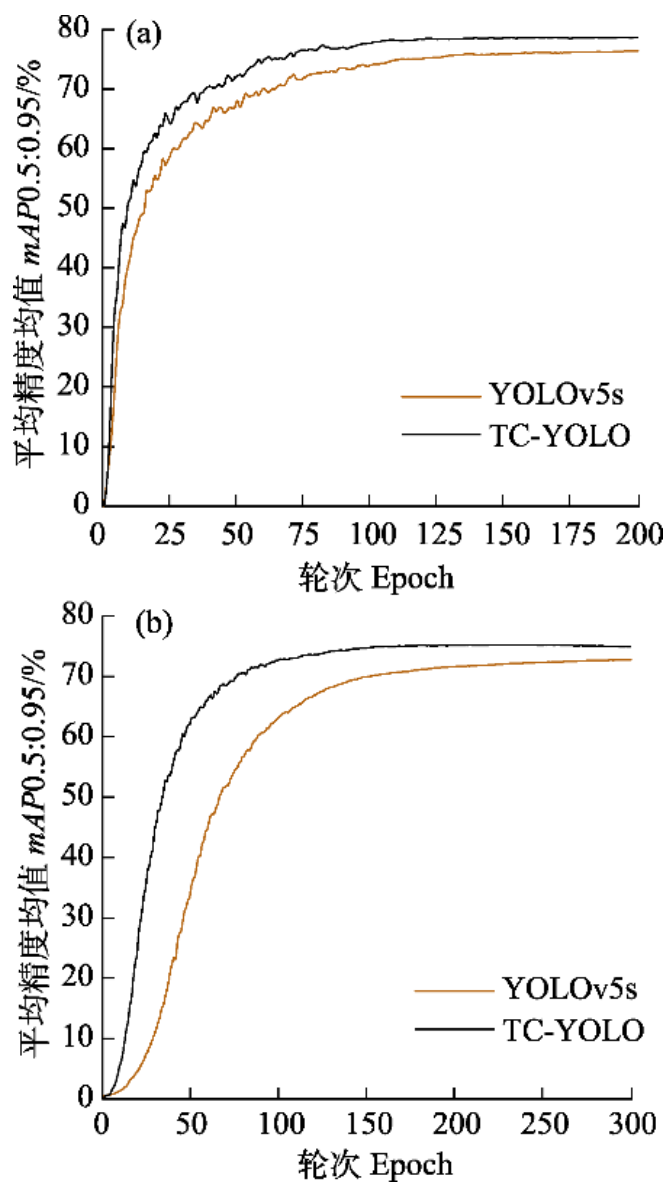
附录 1 YOLOv5s 模型结构。Upsample: 最近邻插值上采样。

Appendix 1 YOLOv5s model structure. Upsample, Nearest neighbor interpolation upsampling.



附录 2 数据集 Beijing-28 (a)与 CUB200-2011 (b)损失函数对比图

Appendix 2 The loss function comparison chart between dataset Beijing-28 (a) and CUB200-2011 (b)



附录 3 数据集 Beijing-28 (a)与 CUB200-2011 (b)平均精度均值对比图
Appendix 3 The comparison chart of mAP between dataset Beijing-28 (a) and CUB200-2011 (b)