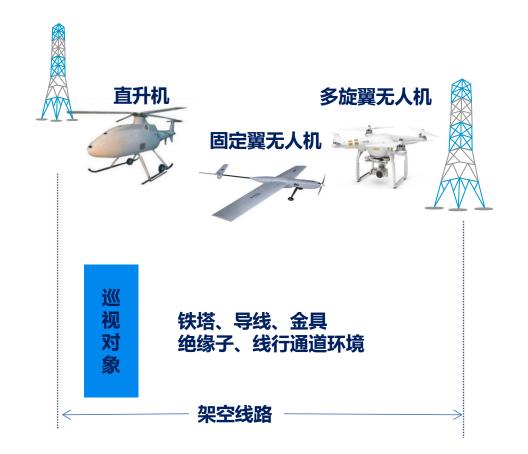
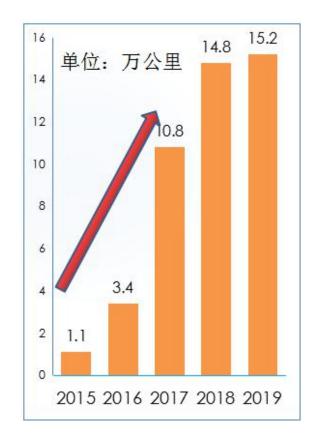
人工智能在输电线路航采数据中的应用

分享者:电力行业人工智能从业员



输电线路点多面广,长期依靠人工爬山涉水、登塔走线巡视

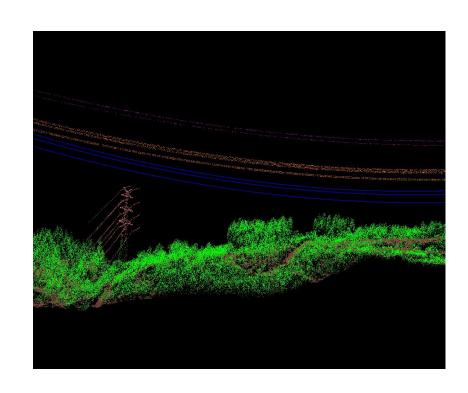




航采数据(主要有两种)



可见光图像



激光/可见光点云

可见光图像AI识别

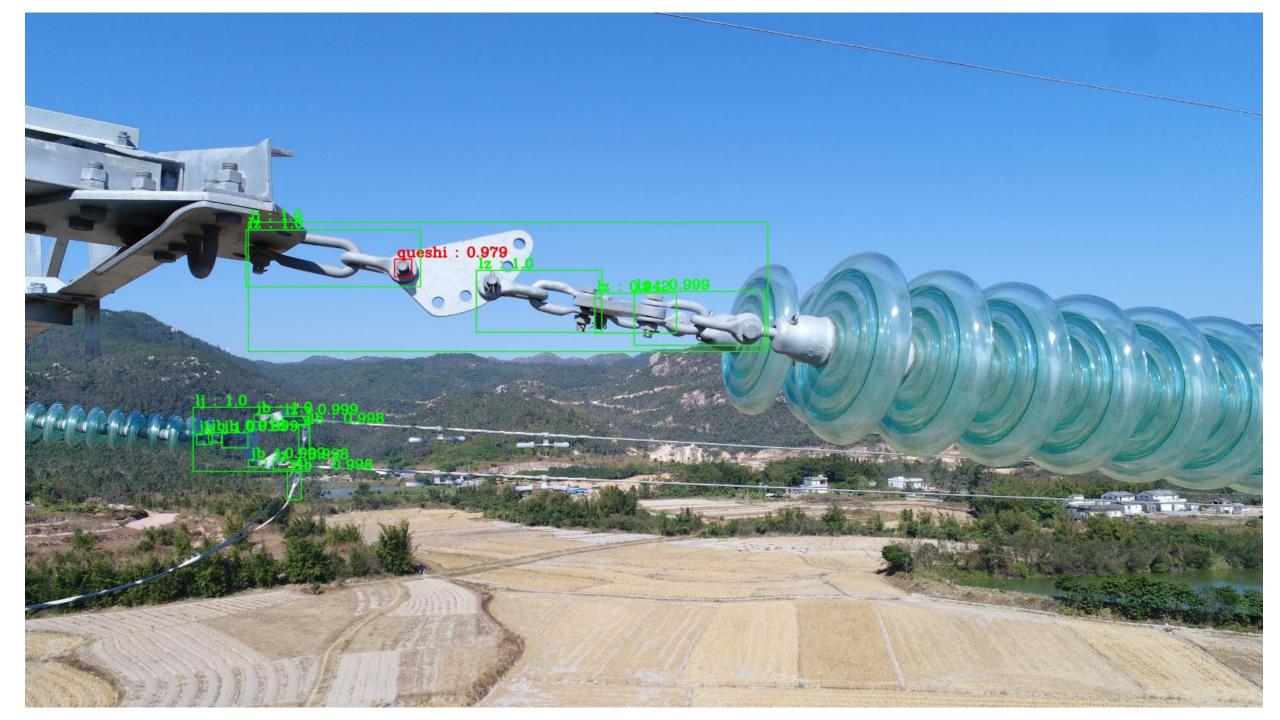
大设备识别,简单

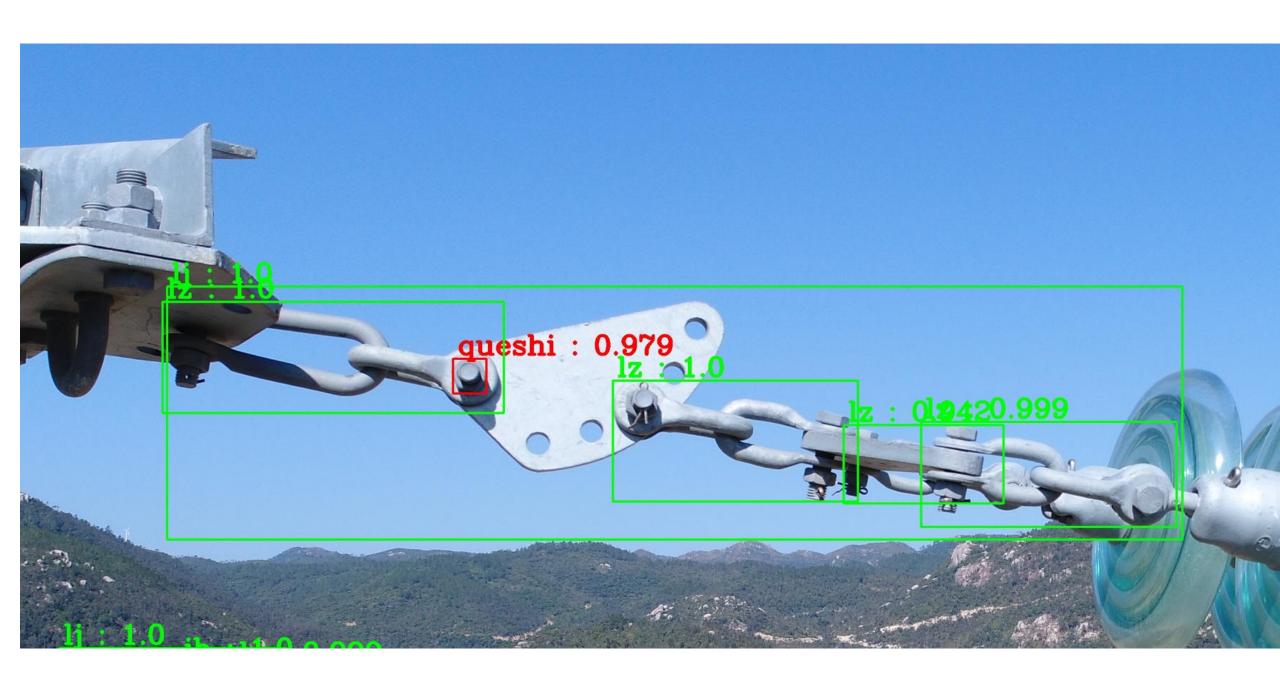


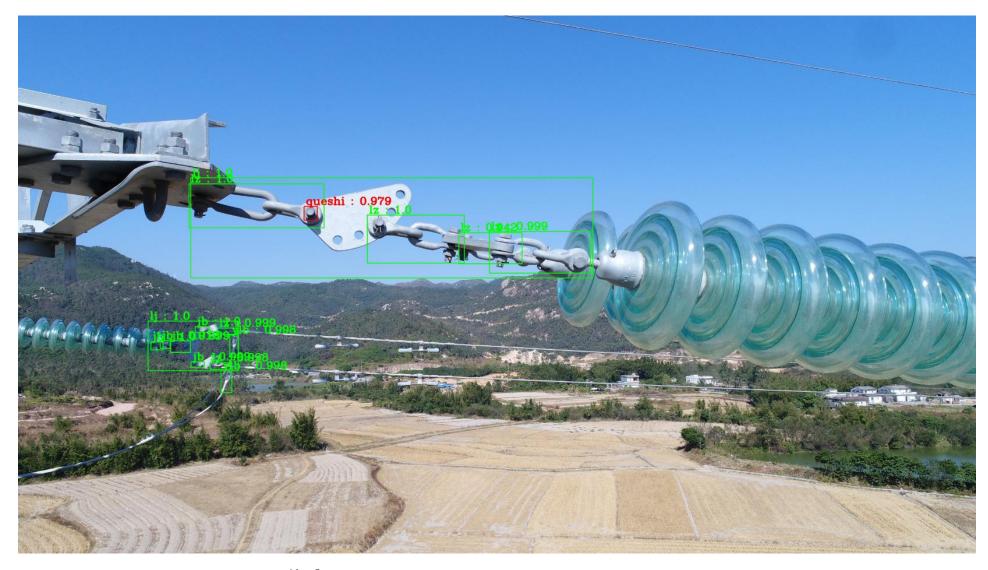
小东西识别,难难难







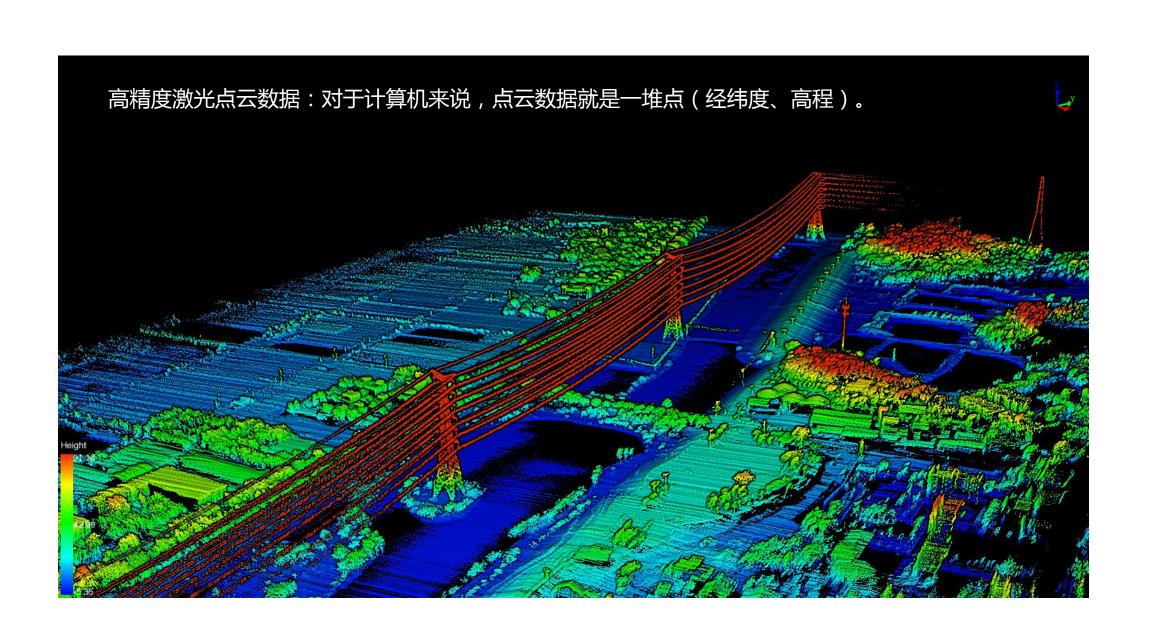




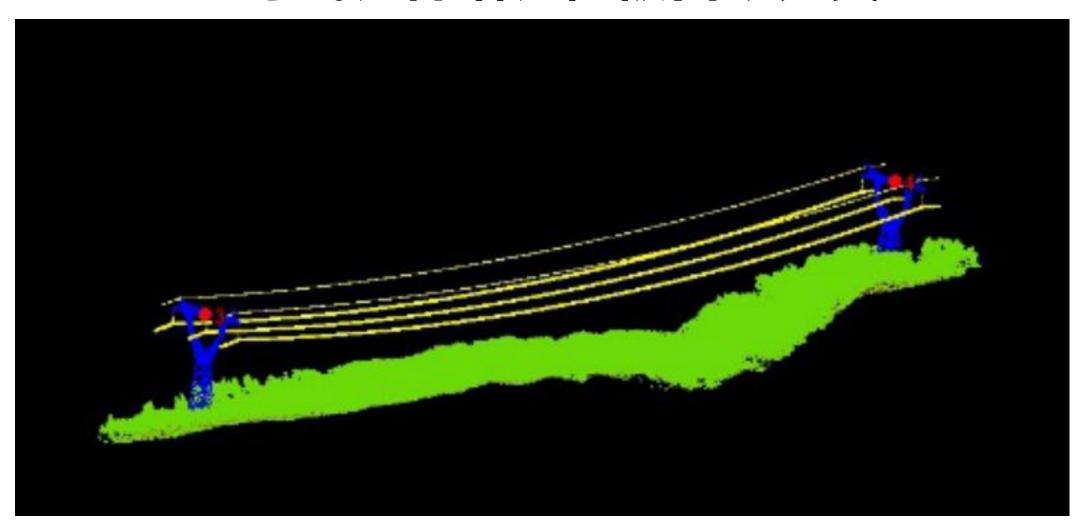
难点:

- A.小东西识别准确率如何提高?
- B.干扰的识别结果如何过滤掉?

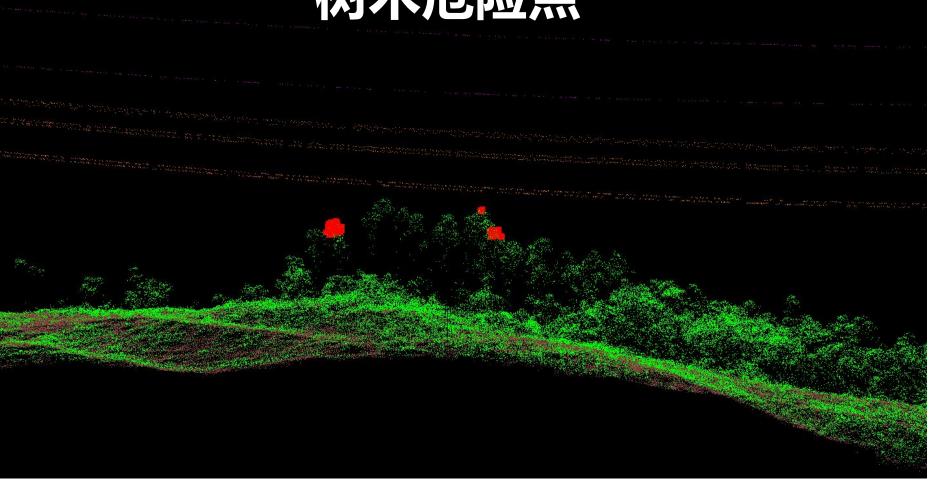
激光/可见光点云AI识别



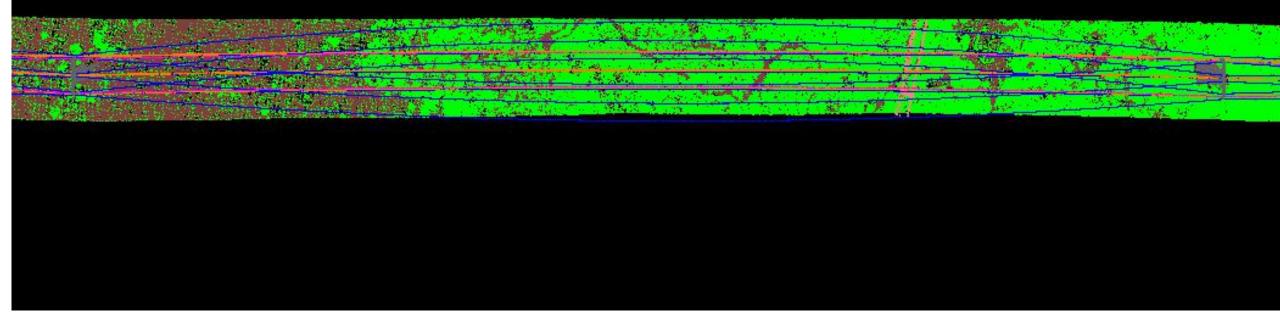
导线、杆塔、植被自动分类



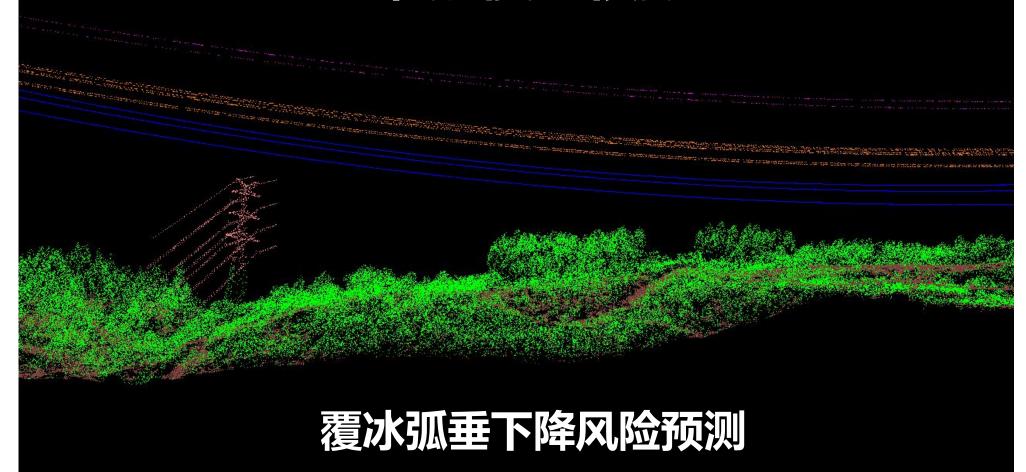
树木危险点



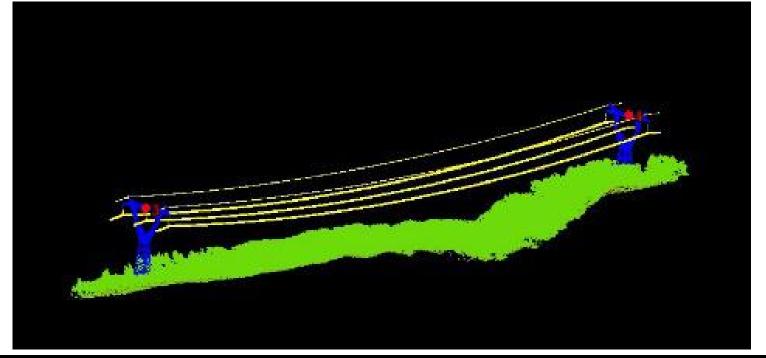
最大风模拟(台风)

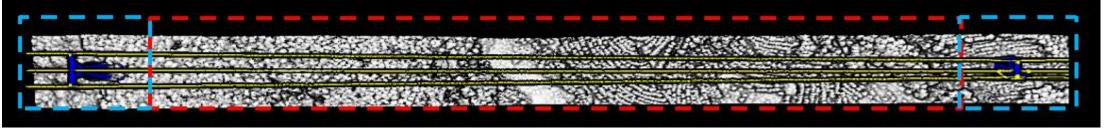


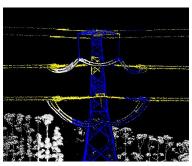
最厚覆冰模拟

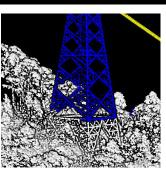


最高温(大负荷)模拟

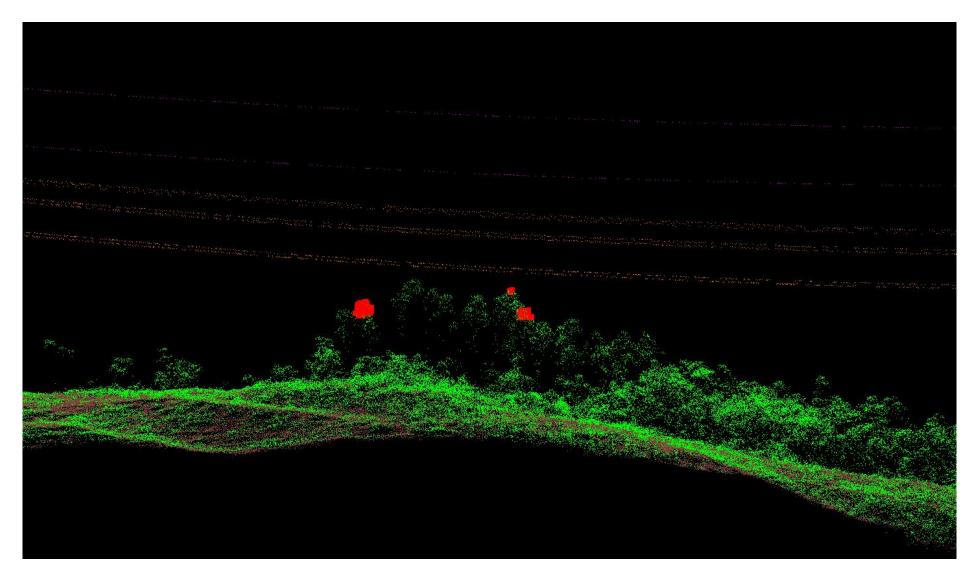








难点1: 杆塔的塔身、塔基分类准确率如何提高?



难点2: A.树木数量? B.每棵树的胸径? C.每棵树的树种?

谢谢! THANK YOU!