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Algorithm 1: Algorithm to detect and track airborne UAVs
Data: Realtime Image Frames
Result: Bounding Box Coordinates of the UAV
cnt \leftarrow 0;
detection\_initiated \leftarrow False;
object\_detected \leftarrow False;
rect \leftarrow [0, 0, 0, 0];
frame\_per\_detection \leftarrow N;
while True do
   frame \leftarrow current frame of the stream;
   cnt \leftarrow cnt + 1;
   if cnt\% frame_per_detection = 0 or not detection _initiated or not object_detected then
        detection\_initiated \leftarrow True;
       rect \leftarrow object\_detection\_model(frame);
       tracker \leftarrow Tracker\_initializer(frame, rect);
       Tracker\_is\_initilized \leftarrow True
   else
       if Tracker_is_initilized is True then
            rect \leftarrow obejct\_tracking\_model(tracker, frame);
            if score of the tracking of the tracking \leq threshold then
                Tracker\_is\_initilized \leftarrow False;
                object\_detected \leftarrow False;
               continue
            end
         else
     \mathbf{end}
 end
```