

Details of implementation Architecture: Implementation: Obackhone . 1) Network architecture ResNet: before 4-th stage. rbackbone: ResNet-50; (share parameters) head: conv5 -> Norm, ReLU conv6 -> 1x1 conv. adjust layer: 1x1,256 (not shared) mask refinement module depth-wise xcorr: 17x17. 2 head 2 Training convs convb 1x1,256 1x1,(63x63) mask FC: Similarity measure learning 1x1,256 1x1,4k RPN: bounding box regression box class-ognostic binary segmetation 1x1,256 1x1,2k score 3 Refinement 3 Inference merge resolution feature: evaluated once per frame skip connection output mask with maximum score binarise with threshold of o.s. Improvement: Donline learning: Siamese / CF ② accurate output: Corner Net / Pose Track, ExtremeNet. 3 Network: accuracy (fine-tune)/speed (crop). 4) offline training: Similarity measure, step. Other: fine-grained, generalization, long-term.