ST box , Overlage Prediction The intersection over Union union is a measure for how much a predicted III boundary overlages with the truth. It is defined as 100 = area of union where the overlap is shown in fig 2, the area where both boxes cover, and the union is shown in fig 3, where any box covers.

true positives true positives precision all positives true positives + false positives true positives true positives recall all cases true positives+false negatives True positive is a positive judiction on a positive case. False positive is a positive prediction on a negative case. False negative is a negative prediction on a positive case. 1. C) $\mu(r) = \max \mu(\tilde{r})$ 14(0,0) = 1,0 M2 (0,0) = 1,0 p. (0,7)=0,5 M2(0,7) = 0,5 $M_1(0.8) = 0.20$ 1/4(0,1) = 1,0Mr (08) = 0,20 $\mu_2(0,1) = 1.0$ $M_2(0,9) = 0.20$ p.(09) = 0,20 14(0,2)= 1,0 Ma(0,2) = 1,0 1, (0,3) = 1,0 M2(0,3)=1,0 p.(1.0) = 0,20 Ma(1,0) = 0,20 M.(0.4) = 1.0M2(04) = 0,80 M2(0,5) = 0,60 p.(0,5) = 0,5 M.(0.6) = 0,5 $M_2(0.6) = 0.5$

$$mAP = \frac{1}{11}(5.1 + 3.0.5 + 3.0.2) = 0.645$$

$$mAP = \frac{1}{11}(4.1 + 0.8 + 0.6 + 2.0.5 + 3.0.2) = 0.636$$

$$mAP = \frac{1}{2}(mAP_1 + mAP_2) = 6.641$$