Yolo V4

Yolo VY

Bad(bone)-) ned(

Hend

? Bachbone 9 epol: feature extraction

? Harder SIP): decision

Why reck? fluent extructed feature transpor.

Bachbone: VGG / Resner / Resnext / Darkner / Densener / Mobile Heard: Dense prediction (one stage) -> RPN YOLO SSD Retina Sparre prediction (two stage) -> RCNN

Neck: FPN / PAN

Bachbore: Increasing keepfin field

Hend: decision

Nech: Used for feature collection Cingrasing activation 5/20)

- reda extraction > two stage betector -: bottle nede * Ran (Region - aun) RCNN: Selective Search + CMV for each BOI + FC for each PoI Fast Rann: selective search + Conv + Fc for coun Rol Faster RCNN: RPN (QUN) + ROI pooling for each RP 4 FC for each POI Archor: Multiscale boxes that swipes out images * Slightly different from Yolo anchor

FPN: feature decoru « Lupsample or des How; FPN Spaticlinal texture/ Context info (t) \bigoplus gatal ins context into augnented form Higher sportial larger

Bug of specials Bag of freebies =) Offlire cost? =) online cost T Accuracy 1 not anline cost pxelwise O photo metric Listortin Receptile Field 1 SPP) ASPP RFB @ genetic distortion Affention - later Bloch Wise Goffmax (QV) O drop block @ MX-UP Activator 3 Cut MIX Gwish/MZsh 3 differentiable on o (4) MosaIc Semantic (class imbalance) POST PLOCESSING O Foch loss. (1-Pt) loy(Pt) NMS. 3 Knowledge distillator Clasel Smoothing) · V·(1-12)+ 4 BBOX reglession -> coords -> value base loss x (such as l2) of Love loss

Yolov4	
O Select	Baich bone
3) Select	
2) Colore	Lead

D Backbone => CPSD Parknet +SPP

Note) Good classifier & Good at detection

1. Higher resolution

/ 2. Higher receptive Hell

3. More params (for gleater capacity)

> Why? D Big object Size

3 Context (Leeper network size)

@ Nech: PAN

3 Hend: YoloV3

Additional nethods

1. SAT (self adversity) trainly

2. Genetic > Hyperparm Tuning

3. SAM, PAN, BN S modified