Supplementary Material

Apple recognition and picking sequence planning for harvesting robot in a complex environment

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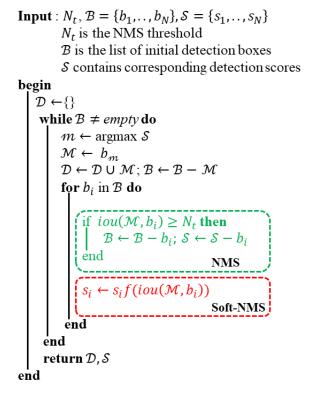
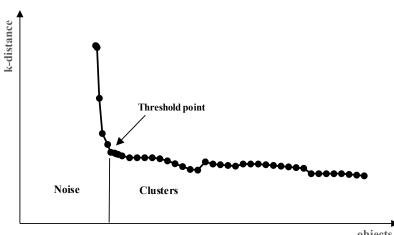


Figure S1. The pseudo-code in green is replaced with the one in red in soft non maximum suppression. We propose to revise the detection scores by scaling them as a linear or Gaussian function of overlap.



objects

Figure S2. K-distance diagram.

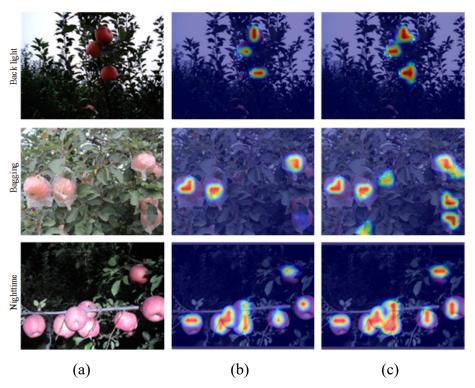


Figure S3. Feature extraction heat map distribution in different environments. a) Original images; b) YOLOV5s; c) EF-YOLOV5s.