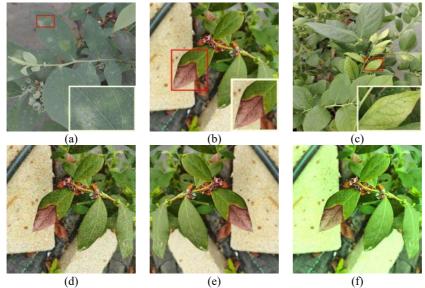


## Computers and Electronics in Agriculture



1



(d) (e) (f)
Fig. 1. Blueberry health dataset and its enhancement method. (a) Powdery mildew. (b) Leaf anthracnose. (c) Nutrient deficiency. (d) Noise. (e) Rotary scaling. (f) Color transformation

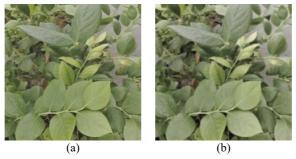
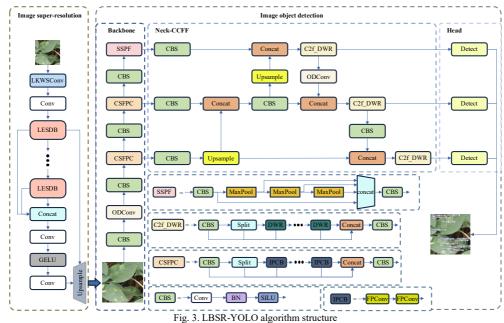


Fig. 2. Comparison of low-resolution images before and after preprocessing. (a) Original image. (b) Pre-processed images

2 3 4





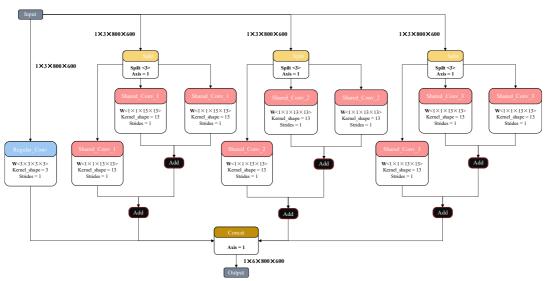


Fig. 4. Large Kernel Weight Sharing Convolution

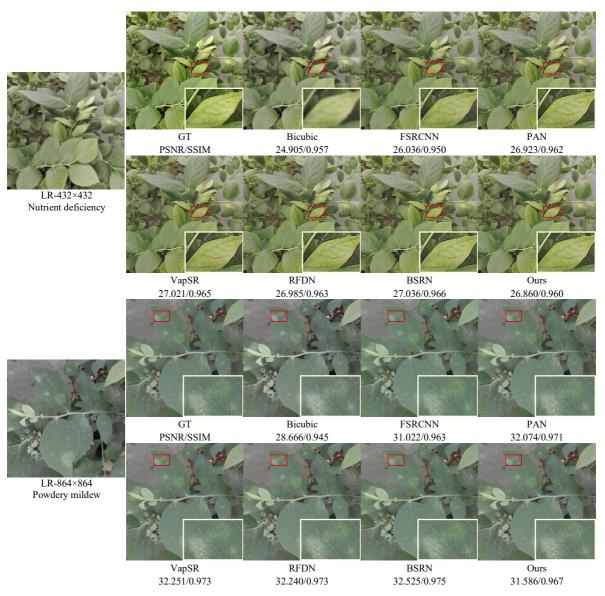


Fig. 7. The actual operation comparison of each image super-resolution reconstruction algorithm





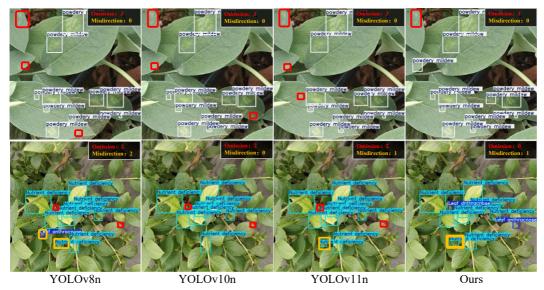


Fig. 8. The actual operation comparison of each target detection algorithm

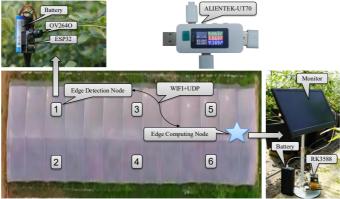


Fig. 9. Deployment of LBSR-YOLO and WSN

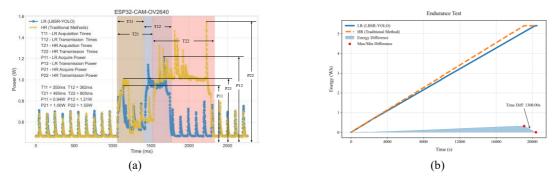


Fig.10 Energy consumption of edge detection node. (a) Energy consumption of single picture acquisition and transmission. (b) The endurance of

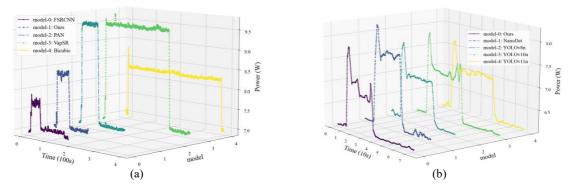


Fig. 11. Energy consumption of edge computing nodes. (a) Image super-resolution reconstruction algorithm. (b) Image target detection algorithm

