

Extracting the height of lettuce by using neural networks of image recognition in deep learning

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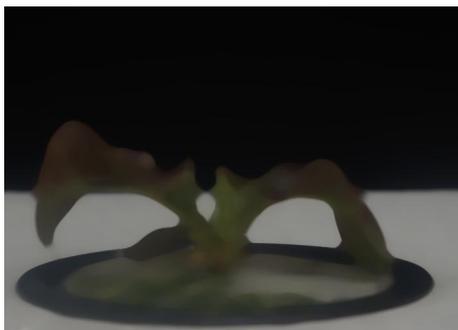
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Lettuce

Plant Height

Neural Networks





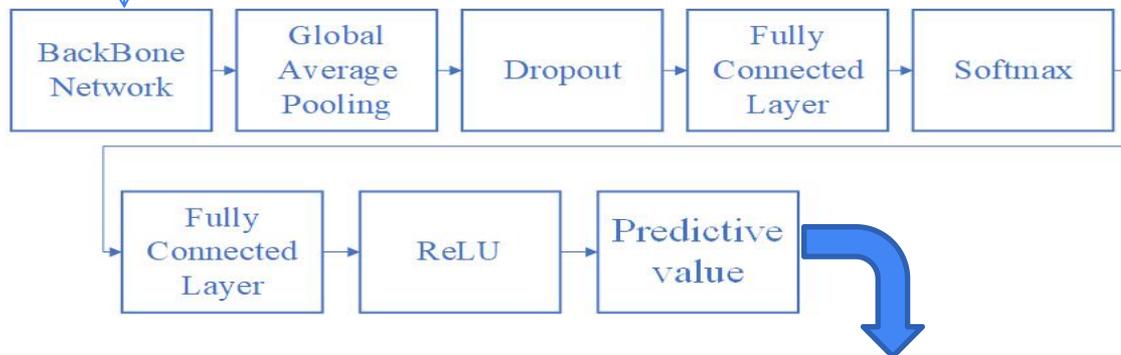
Collect data and parameters

Data Preprocessing

Data Augmentation

MobileNetV1 DenseNet-121
ResNext-50 EfficientNet-B3

model fusion



Model	MAE(mm)	MSE(%)	HAE(mm)	HSE(%)
MobileNetV1	1.45	4.59	7.6	16.83
DenseNet-121	1.36	4.47	9.33	18.49
ResNext-50	1.42	4.55	9.71	15.97
EfficientNet-B3	1.35	4.64	7.28	16.24
Average Fusion	1.22	3.91	7.57	16.07

