





INTRODUCTION

- Negative influence of insects on the yield of agricultural crops
- Pest control sticky boards, tapes, traps
- Tracking and detection of Apple Codling Moth
- Sticky traps
- ARTIFICIAL NEURAL NETWORKS
- More layers the greater predictive capability









TENSORFLOW

CUDA DEEP NEURAL NETWORKS

CUDA





TENSORFLOW

- End-to-end open-source platform
- Tools
- Libraries
- Community



02



CUDA DEEP NEURAL NETWORKS

- GPU-accelerated primitive library
- Provides highly tuned standart routine implemenations
- Normalization
- Pooling

- Faster model traning
- Reduces traning time
- Programming model and platform
- Parallel computing

03

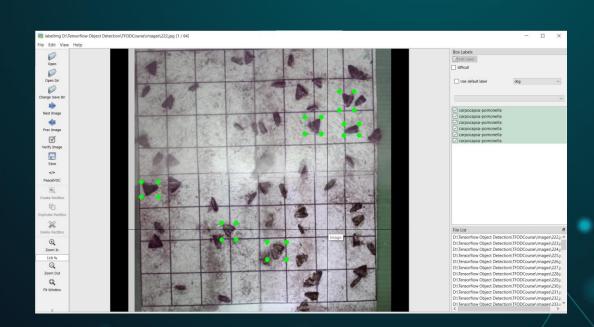


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01

LABELING



- MEAN AVERAGE PRECISION:
- Confusion Matrix (TP, TN, FP, FN)
- Intersection over Union
- Recall
- Precision

03



EVALUATING

FALSE TRUE POSITIVE **NEGATIVE**

- MEAN AVERAGE PRECISION:
- Confusion Matrix (TP, TN, FP, FN)
- Intersection over Union
- Recall
- Precision

03



EVALUATING

RESULTS





- AI is neither good nor evil. It's a tool. It's a technology for us to use.

Oren Etzioni