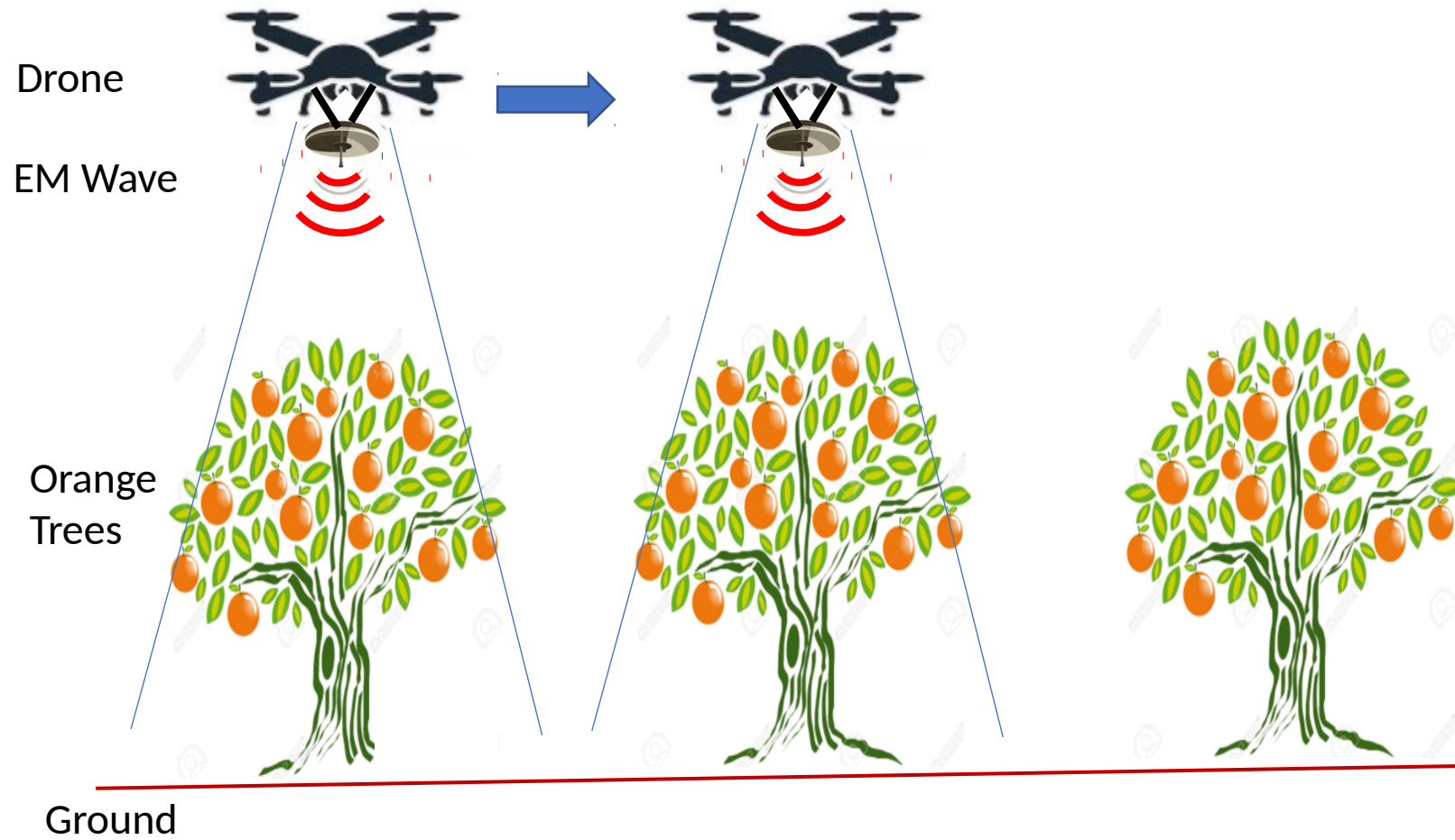


Title: Electromagnetic Bactericide for Huanglongbing (EMB for HLB)

- Description: An electromagnetic (EM) approach for curing and prevention of Citrus Huanglongbing (HLB) disease is proposed.
- An appropriate EM wave transmitter attached to a drone will apply EM energy to a Citrus tree from air to selectively remove *Candidatus Liberibacter* causing the HLB disease.
- Frequency, modulation scheme (time and waveform), and power level will be determined to optimize the treatment.
- The drone ultimately will be equipped with an optical detection mechanism and artificial intelligence (AI) algorithm for autonomous operation in the field, realizing an Internet of Agriculture Things (IoAT).

April 27, 2018

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