

## research question

*Can Deep Learning scale up high quality image annotation and interpretation?*

## research goals

- **detect** objects automatically using *deep convolutional neural networks*
- **register** map locations and **identify** identical objects on varying images
- **predict** attributes like size, height, species

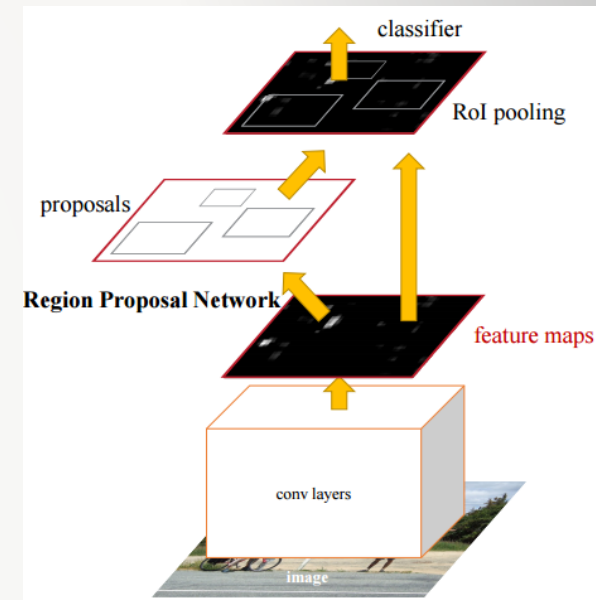


## challenges

- limited ground truth
- varying resolutions
- small objects
- seasonal vegetation
- changing objects

## approaches

- extend Faster RCNN
- pre-training
- data augmentation



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