

theGOAL

Investigating and shedding light upon the challenges and solutions of target search using drones in a realistic environment.

only

35%

CNNs confidently identify an object*

theSTATS

SURVEILLANCE & MAPPING

TARGET LOCALIZATION WITH DRONES USING MOBILE CONVOLUTIONAL NEURAL NETWORKS

theCOMONENTS

+ optimizing the flight path of a drone with a single static target

+ a testbed combining mobile CNNs & policy search with point based methods in a POMDP framework

+ a realistic application of identifying a static basketball

thePROBLEM

the risk of over-modeling

environmental factors

accounting for structured noise

