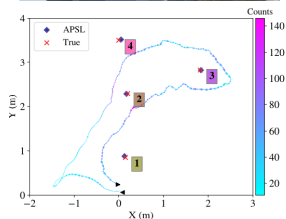


## Source localization

- Several unknown variables
  - ▶ location, strength, number of sources
- Measurements using UAV (drone)
- Challenging optimization problem
- Current solutions include : Additive Point Source Localization (ASPL) algorithm, and Maximum Likelihood (ML)
- ASPL computationally expensive
  - ▶ Need faster algorithms to enable online application e.g. surveillance
- ML is fast but obtains overfitted models

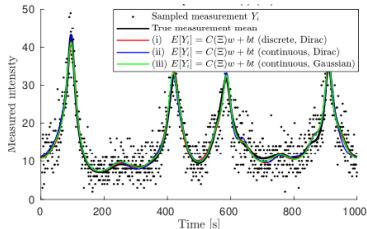
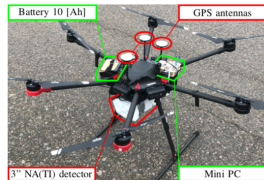


# Fast algorithms for radiation source localization - (Desired)

## Background/experience

### Background/experience

- Optimization
- Dynamical Systems modelling
- Statistics
- Programming skills



### Further enquiries

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