Robotic Sensor Networks

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Robotic Sensor Network for Monitoring Invasive Carp

Requires domain experts

• Year round?
• Good and bad weather?
• 10k Lakes?

Robotic Sensor Network for Monitoring Invasive Fish

Searching for Aggregations of Fish

Three different target models
• Stationary
• Probabilistic
• Adversarial

Collaborative Localization with Communicating Robots

Accurately locating tags as quickly as possible.

- With communications constraints between robots
- Possibly mobile targets

Thank you