## 1 DBLP:conf/icra/MurphyN11 [1]

Uses the ALT algorithm and risk heuristics to guide the search over probabilistic cost maps. This is the paper that uses random terrain generation as to make the risk maps.

## 2 DBLP:journals/cacm/FournierFC82 [2]

Paper that describes the diamond square algorithm for random risk map generation.

### 3 koenig1994make [3]

Describes how to adapt a reactive planner that can sacrifice the probability of goal achievement to minimize risk.

## 4 beard2006decentralized [4]

A decentralized approach for fixed wing aerial surveillance. Nothing too special in this paper besides it showing that there is a need for this sort of thing.

# 5 hussein2007effective [5]

The paper shows that flocking (so simple local rules) can be used to promote effective sensor coverage of an area. Also the paper assures the reader that the robots will avoid contact.

## 6 alexis2009coordination [6]

This paper is a good reference and shows why risk sensitive path planning is needed. Quadrotors are used to perform surveillance using UAVs for forest fires. The quadrotors use their measurements to avoid random windgusts. This paper is focused on using sensors to predict the movement of the fire.

## 7 bethke2009multi [7]

This paper provides a solution to the persistent surveillance problem using a group of UAVs. The paper extends the problem formulation to account for stricter communication constraints and stochastic sensor failure models. Basically this paper shows how a group of UAVs can monitor their health, account for sensor failures, and still maintain persistent coverage.

### 8 michael2011persistent [8]

This paper describes the system architecture for persistent sensor coverage using a swarm of micro aerial vehicles (MAVs)

## 9 stump2011multi [9]

This paper models the persistent surveillance problem as a discrete vehicle routing problem and uses advances in operations research and logistics to solve it.

### 10 julian2011towards [10]

This extended abstract discusses a unifying information theoretic framework for multi-robot exploration and surveillance.

### 11 Bethke2008 [11]

This paper discusses a methodology for health management for UAVs to perform persistent surveillance that maximizes performance amidst vehicle failures.

## 12 grocholsky2006cooperative [12]

This paper discusses how UAVs and UGVs can be used together to share their best qualities to track targets. Their results are very scalable and they created a seamless network of UAVs and UGVs.

## 13 kuindersma2013variational [13]

"The paper presents a Bayesian policy search algorithm for problems with policy dependent cost variance". The search algorithm allows for runtime adjustments for risk-sensitivity. The results show that policies can be learned using very little experimental trials that are flexible and risk sensitive.

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