



ASEN/CSCI 5264

Decision Making under Uncertainty

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3 Example Problems

A/C Collision Avoidance

Sense-Plan-Act Loop

Four Big Challenges in DMU

Four Types of Uncertainty in DMU

Break

- Engineering is a team sport!
- Groups of 2-4:
 - Name
 - Department
 - Sequential decision making problem

Problems in DMU

Limited	Powerful
Finite, discrete spaces	Continuous spaces
Specific parameterized distribution classes (e.g. Gaussian)	Arbitrary distributions
Approximate algorithms	Fast, globally optimal algorithms

**Usually, you only get to pick
two in this column!**

Course Materials/Logistics

- Syllabus
- Github
- Book
- Edstem
- Homework
- Julia

A bit about me

