

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

