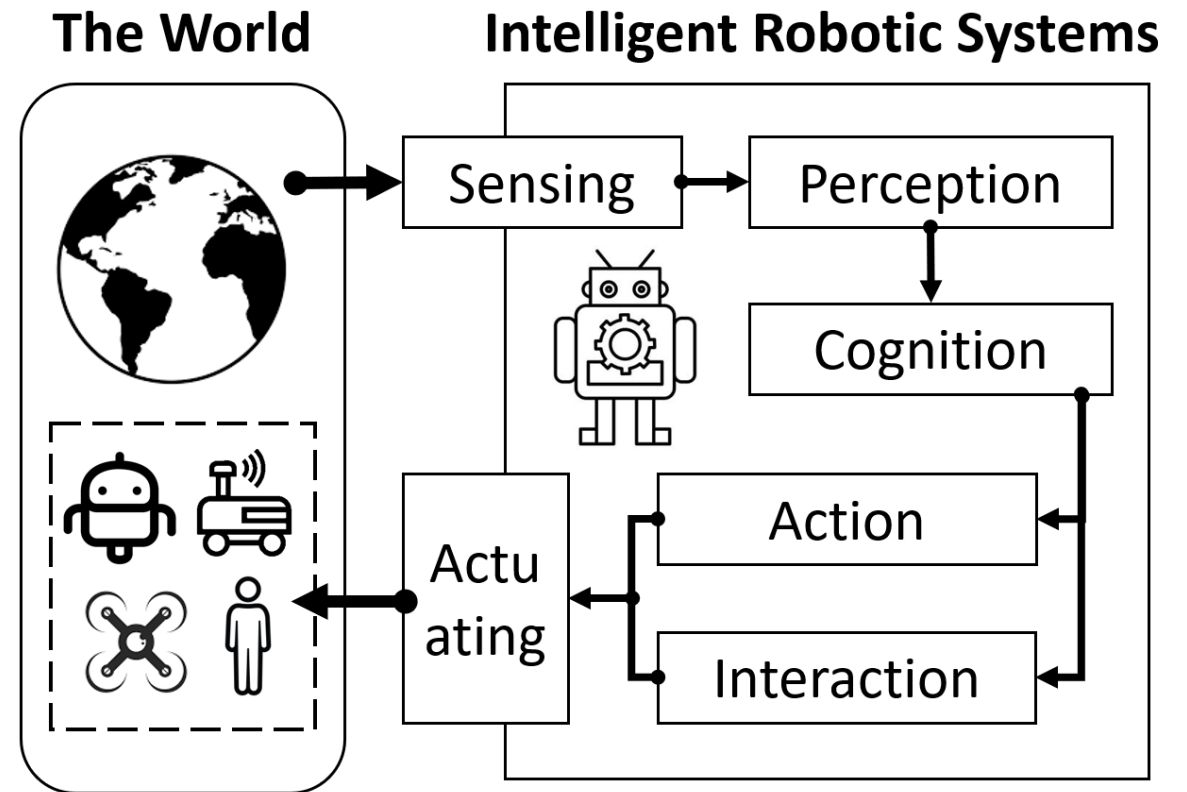


COMPSCI-603: Robotics

Couse Summary

What We've Learned

- Robot software system
- Robot learning
 - Learning from demonstration
 - RL for control and planning
- Probabilistic Robotics
 - Particle filter for localization
 - Kalman filter for state tracking
- Robot mapping
 - EKF-based SLAM
 - Pose-graph SLAM
- Special topics: self-driving, DARPA robotics, robotics vs jobs...



Course Objectives

- Get students motivated!
- Introduce students the state-of-the-art robotics research and robotic systems.
- Teach student fundamental theories and algorithms to build intelligent robots.
- Provide students experience of constructing a working intelligent robotic system (but not algorithms only).
- Improve students' other skills, including technical writing, presentation, and teamwork.

SRTI Course Survey (Optional)

- Completion of Student Response to Instruction (SRTI) course survey will add 1 additional point to the final course grade
- **Deadline: 11 PM on 05/20/2023 Monday** (university deadline)
- Submit a snapshot of completion or the confirmation email to the Canvas portal named “Course Survey (Optional)”
(**NOT** the page with your evaluation score)
- SRTI Course Survey website:
<https://owl.umass.edu/owlj/servlet/OwlPreLogin?Server=owl-umacontedonlinecourseeval&datasrc=OwlUMAContEdOnlineCourseEval&xn=cevallogin&showloginpage=true&callsrc=email>