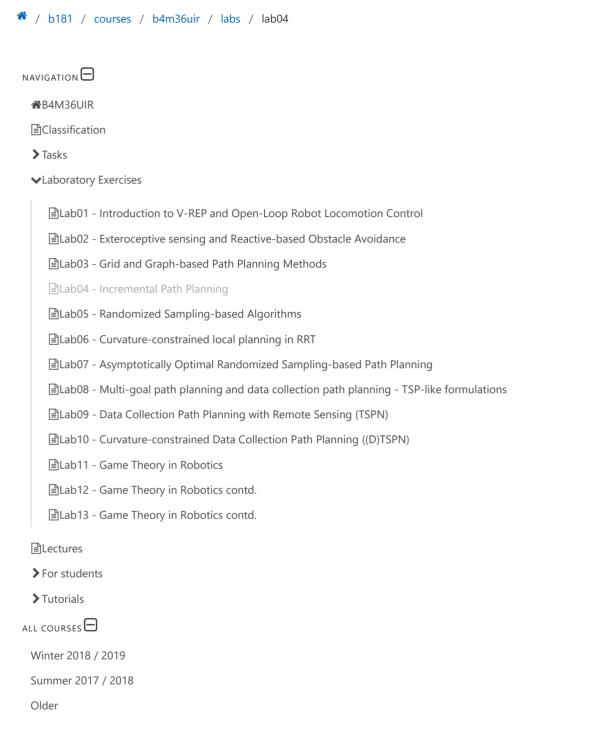
CourseWare Wiki



B4M36UIR & BE4M36UIR

Lab04 - Incremental Path Planning

Motivations and Goals

Become familiar with advanced methods of grid based path planning and dynamic replanning

Be able to dynamically replan the motion based on the robot feedback from the environment

Tasks (teacher)

Motivations and Goals

Task04 (5 Points) Implement and verify the functionality of the D* Lite algorithm

Lab resources

Task04 resource package

Incremental path planning is necessary in partially known or dynamically changing environments. Typical pipeline of incremental planning is:

- 1. **Sensing** new measurements are fused into the environment representation
- 2. **Planning** planning based on the current state of the robot and environment
- 3. **Acting** performing an incremental motion with the robot
- 4. Repeat

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