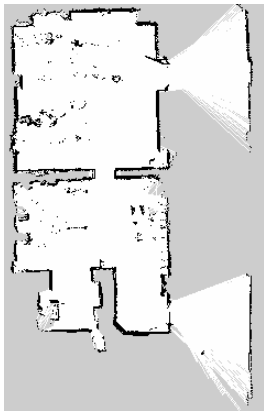


Long-term mapping and exploration (@Home, @Work)



Problem

- Mapping of new environments is currently an operator-guided process
- Changes in the environment over long periods are not accounted for by the robot

Task

1. Review of state-of-the-art in exploration and long-term mapping
2. Explore a predefined region autonomously and generate a map
3. Update preexisting maps while exploring new areas or when known areas have changed

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