

Localisation, Mapping and the Simultaneous Localisation and Mapping (SLAM) Problem

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SLAM Summer School 2002

Slide 1

Introduction

- SLAM asks the following question:

"Is it possible for an autonomous vehicle to start in an unknown location in an unknown environment and then to incrementally build a map of this environment while simultaneously using this map to compute vehicle location?"

- A solution to the SLAM problem would allow robots to operate in an environment without a priori knowledge of a map and without access to independent position information.
- A solution to the SLAM problem would open up a vast range of potential applications for autonomous vehicles.
- A solution to the SLAM problem would make a robot truly autonomous
- Research over the last decade has shown that a solution to the SLAM problem is indeed possible.

Lecture 8 Simultaneous Localisation And Mapping Slam

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