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Lecture 1 Part 2:
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~~Planning~~ Artificial
~~Potential Field~~
~~Method~~ Robot
Motion Planning
using A* (Cyrill
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Lecture 37: Robot

Motion Planning

Roadmap Based

Path Planning:

Visibility Graph and

Generalised

Voronoi Diagrams

as roadmaps

Modern Robotics,

Chapter 10.1:

Overview of Motion

Planning Modern

Robotics, Chapter

11.1: Control

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Specificity in

Functional Training:

Better Exercise

Selection for

Sports, Athletics,

MMA, \u0026 More

Bug1 Algorithm

What's a Brain For:

A Moving Story

Tangent Bug

Algorithm MSR

Course 09 Robot

Motion Planning

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Autonomous

Navigation, Part 4:

Path Planning with

A* and RRT

Robotics Trajectory

Planning - SixtySec

The Expectancy

Theory of

Motivation by

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Modern Robotics,

Chapter 8.1:

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Lagrangian

Formulation of

Dynamics (Part 1 of
2) Robotics

~~2.2.1.1~~

~~Introduction to
Configuration~~

~~Space Path~~

~~Planning and~~

~~Navigation for
Autonomous~~

~~Robots Intro to~~

~~Path Planning: D*~~

~~Lite vs. A* A~~

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~~Robot Motion~~

~~control system~~

~~(Kevin Lynch)~~

~~A level PE~~

~~Biomechanical~~

~~Principles~~

~~Newton's Laws of~~

~~Motion Modern~~

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~~8.1: Lagrangian~~

~~Formulation of~~

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~~2) Why The~~

~~Universe May Be~~

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2 and 3:

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~~Path Planning~~

~~Algorithm~~

~~Explanation Bug1 -~~

~~Path Planning~~

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~~Explanation Sertac~~

~~Karaman (MIT) on~~

~~Motion Planning in~~

~~a Complex World -~~

~~MIT Self-Driving~~

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Robot Motion

Theory

During motion-to-goal, the robot

moves along the m-line toward q_{goal}

until it either

encounters the

goal or an obstacle.

If the robot

encounters an

obstacle, let q_H 1

be the point where

the robot first

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Robot Motion

encounters an

obstacle and call

this point a hit

point. The robot

then cir-

cumnavigates the

obstacle until it

returns to q_H .

Then, the robot

determines

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Kindle Edition. by

Howie Choset

(Author), Kevin M.

Lynch (Author),

Seth Hutchinson

(Author), George A.

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Robot Motion,
Wolfram Burgard
(Author), Lydia E.
Kavraki (Author),
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that makes the
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concepts. Robot

motion planning

has become a
major focus of

robotics. Research
findings can be

applied not only to

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robotics but to

planning routes on
circuit boards,

directing digital

actors in computer

graphics, robot-

assisted surgery

and medicine, and

in novel areas such

as drug design and

protein folding.

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planning has

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Research findings

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planning has

become a major

focus of robotics.

Research findings

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Principles of Robot Motion | The MIT Press

Navigation and motion control of a robot to a

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tasks that have historically been performed with the

assumption that

contact with the environment is

harmful.

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Choset, K. M.

Lynch, S.

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Thrun MIT Press,

Boston, 2005

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based. Probabilistic
Roadmaps (PRM)
Kavraki et al,

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spaces. 1996.

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A text that makes

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Robot motion planning has

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including sensor-
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