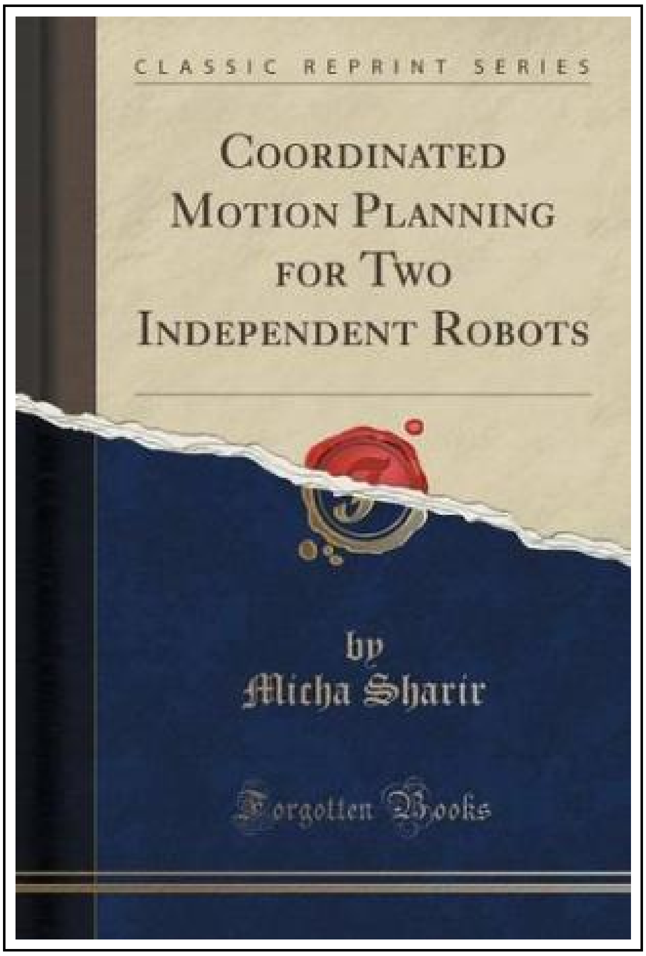
Coordinated Motion Planning for Two Independent Robots (Classic Reprint) (Paperback)



Filesize: 2.35 MB

Reviews

A top quality publication and also the font employed was interesting to learn. It is really simplistic but excitement within the fifty percent from the book. Its been designed in an remarkably basic way in fact it is only following i finished reading this pdf where in fact changed me, modify the way i believe.
(Rachel Stiedemann)

COORDINATED MOTION PLANNING FOR TWO INDEPENDENT ROBOTS (CLASSIC REPRINT) (PAPERBACK)

To get **Coordinated Motion Planning for Two Independent Robots (Classic Reprint) (Paperback)** PDF, please refer to the link beneath and download the ebook or gain access to other information that are relevant to COORDINATED MOTION PLANNING FOR TWO INDEPENDENT ROBOTS (CLASSIC REPRINT) (PAPERBACK) ebook.

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Coordinated Motion Planning for Two Independent Robots We present an 0(n2) algorithm for planning a coordinated collision-free motion of two independent robot systems of certain kinds, each having two decrees of freedom, which move in the plane amidst polygonal obstacles having a total of n corners. We exemplify our technique in the case of two planar Stanford arms, but also discuss the case of two discs or convex translating objects. The algorithm improves previous algorithms for this kind of problems, and can be extended to a fairly simple general technique for obtaining efficient coordinated motion planning algorithms. 1. Introduction In this paper we present a new approach to the design of efficient algorithms for coordinated collision-free motion planning for two independent robot systems moving amidst a collection of obstacles which they must avoid (and also avoid collision into one another). We exemplify our techniques in the case of two planar Stanford arms, where each arm is modeled as a line segment which can slide forward and backward through some fixed point, and can also rotate about that point; thus each arm has two degrees of freedom (sec Fig. I). The arms arc assumed to be moving in the plane amidst a collection of polygonal obstacles, having a total of n corners. This problem has been studied by Fortune, Wilfong and Yap [FWY], who present an 0(n3) algorithm for it. We present here an improved algorithm whose complexity is only 0(n2). This algorithm is a special case of a more general technique that we introduce here, and which can be applied to obtain efficient algorithms for various other coordinated motion planning problems. For example, we obtain...

You May Also Like

[PDF] History of the Town of Sutton Massachusetts from 1704 to 1876 (Paperback)

Access the link under to download and read "History of the Town of Sutton Massachusetts from 1704 to 1876 (Paperback)" PDF file.

Read eBook »

[PDF] Learn em Good: Improve Your Child s Math Skills: Simple and Effective Ways to Become Your Child s Free Tutor Without Opening a Textbook (Paperback)

Access the link under to download and read "Learn em Good: Improve Your Child s Math Skills: Simple and Effective Ways to Become Your Child s Free Tutor Without Opening a Textbook (Paperback)" PDF file.

Read eBook »

[PDF] How to Make a Free Website for Kids (Paperback)

Access the link under to download and read "How to Make a Free Website for Kids (Paperback)" PDF file.

Read eBook »

[PDF] 31 Moralistic Motivational Bedtime Short Stories for Kids: 1 Story Daily on Bedtime for 30 Days Which Are Full of Morals, Motivations Inspirations (Paperback)

Access the link under to download and read "31 Moralistic Motivational Bedtime Short Stories for Kids: 1 Story Daily on Bedtime for 30 Days Which Are Full of Morals, Motivations Inspirations (Paperback)" PDF file.

Read eBook »

[PDF] The Voyagers Series - Europe: A New Multi-Media Adventure Book 1 (Paperback)

Access the link under to download and read "The Voyagers Series - Europe: A New Multi-Media Adventure Book 1 (Paperback)" PDF file.

Read eBook »

[PDF] No Friends?: How to Make Friends Fast and Keep Them (Paperback)

Access the link under to download and read "No Friends?: How to Make Friends Fast and Keep Them (Paperback)" PDF file.

Read eBook »