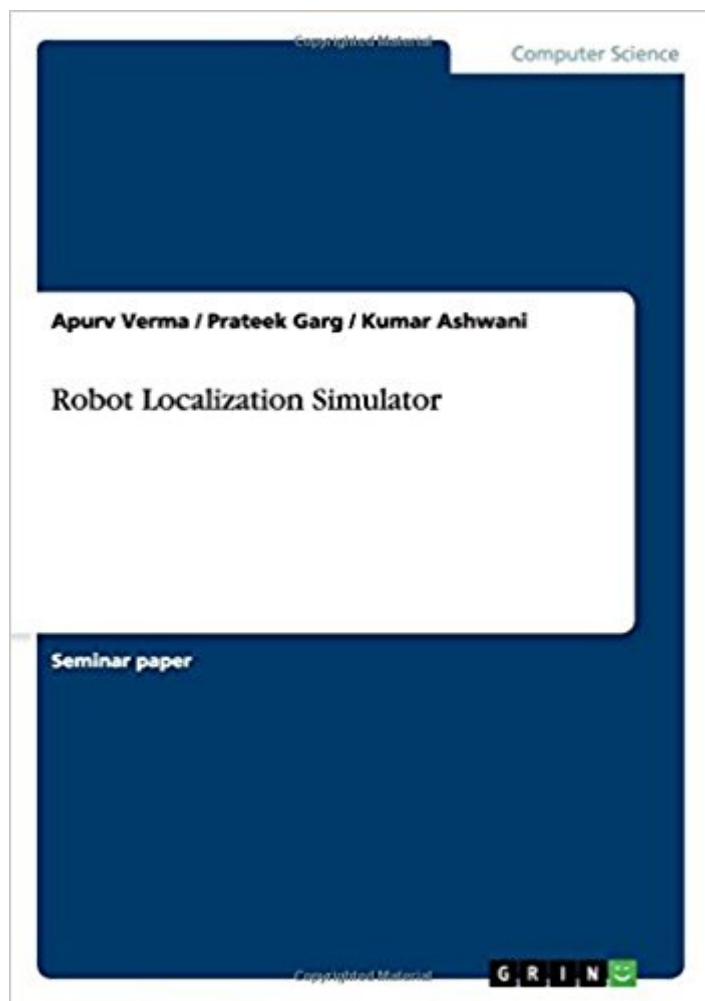


The book was found

Robot Localization Simulator



Synopsis

Seminar paper from the year 2012 in the subject Computer Science - Miscellaneous, grade: none, Indian Institute of Technology, Delhi, course: Computer Science and Engineering, language: English, abstract: In this project we explore the various algorithms for the Robot Localization Problem and build a simulator to visualize the results on various 2D maps. Robot localization is an important problem in robotics. Simply put, the robot localization problem is as follows. A robot is placed at an unknown point inside a simple polygon P . The robot has a map of P and can compute visibility polygon from its current location. The robot must determine its correct location inside the polygon P at a minimum cost of travel distance. We implement an approximation algorithm as given by Apurva Mudgal [2006]. The paper gives an $O(\log^3 n)$ factor approximation algorithm however our main emphasis is to show the practicality of the algorithm. In this project we are simulating it on different maps without taking time complexity in consideration. Computational Geometry Algorithms Library CGAL has been used for the various computational geometry algorithms.

Book Information

Paperback: 48 pages

Publisher: GRIN Verlag (June 7, 2013)

Language: English

ISBN-10: 3656443599

ISBN-13: 978-3656443599

Product Dimensions: 5.8 x 0.1 x 8.3 inches

Shipping Weight: 4.8 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #8,600,731 in Books (See Top 100 in Books) #63 in Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Localization

[Download to continue reading...](#)

Robot Localization Simulator Mobile Robot Localization and Map Building: A Multisensor Fusion Approach Enhancing Indoor Localization with Proximity Information in WSN: A novel way of enhancing indoor localization in wireless sensor networks Localization in Wireless Sensor Network: An enhanced composite approach with mobile beacon shortest path to solve localization problem in wireless sensor network RF-based Indoor Localization in Sensor Networks: Localization Using Signal Fingerprinting Protocol for Wireless Localization Systems: Communications Protocol for RF-based Wireless Indoor Localization Networks CCNA 640-802 Network Simulator, Academic

Edition Farming Simulator Modding For Dummies 50 Robots to Draw and Paint: Create Fantastic Robot Characters for Comic Books, Computer Games, and Graphic Novels MR. ROBOT: Red Wheelbarrow: (eps1.91_redwheelbarr0w.txt) Make Your Own Robot The Wild Robot Ricky Ricotta's Mighty Robot (Book 1) Ricky Ricotta's Mighty Robot vs. The Uranium Unicorns From Uranus Rabbit and Robot: The Sleepover (Candlewick Sparks) How to Build a Robot Robots in Science and Medicine (Robot World) Battling for Victory: The Coolest Robot Competitions (The World of Robots) Robot Voyagers (Robozones) Robot (Eyewitness Guides)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)