



Learning Robotics Using Python

Lentin Joseph

Download now

[Click here](#) if your download doesn't start automatically

Learning Robotics Using Python

Lentin Joseph

Learning Robotics Using Python Lentin Joseph

Design, simulate, program, and prototype an interactive autonomous mobile robot from scratch with the help of Python, ROS, and Open-CV!

About This Book

- Design, simulate, build and program an interactive autonomous mobile robot
- Program Robot Operating System using Python
- Get a grip on the hands-on guide to robotics for learning various robotics concepts and build an advanced robot from scratch

Who This Book Is For

If you are an engineer, a researcher, or a hobbyist, and you are interested in robotics and want to build your own robot, this book is for you. Readers are assumed to be new to robotics but should have experience with Python.

What You Will Learn

- Understand the core concepts and terminologies of robotics
- Create 2D and 3D drawings of robots using freeware such as LibreCAD and Blender
- Simulate your robot using ROS and Gazebo
- Build robot hardware from the requirements
- Explore a diverse range of actuators and its interfacing
- Interface various robotic sensors to robots
- Set up and program OpenCV, OpenNI, and PCL to process 2D/3D visual data
- Learn speech processing and synthesis using Python
- Apply artificial intelligence to robots using Python
- Build a robot control GUI using Qt and Python
- Calibration and testing of robot

In Detail

Learning about robotics will become an increasingly essential skill as it becomes a ubiquitous part of life. Even though robotics is a complex subject, several other tools along with Python can help you design a project to create an easy-to-use interface.

Learning Robotics Using Python is an essential guide for creating an autonomous mobile robot using popular robotic software frameworks such as ROS using Python. It also discusses various robot software frameworks and how to go about coding the robot using Python and its framework. It concludes with creating a GUI-based application to control the robot using buttons and slides.

By the end of this tutorial, you'll have a clear idea of how to integrate and assemble all things into a robot

and how to bundle the software package.

 **Download** [Learning Robotics Using Python ...pdf](#)

 **Read Online** [Learning Robotics Using Python ...pdf](#)

Download and Read Free Online Learning Robotics Using Python Lentin Joseph

From reader reviews:

Anna Gann:

The reserve with title Learning Robotics Using Python has a lot of information that you can discover it. You can get a lot of advantage after read this book. This book exist new knowledge the information that exist in this book represented the condition of the world currently. That is important to yo7u to know how the improvement of the world. This particular book will bring you throughout new era of the globalization. You can read the e-book on your smart phone, so you can read this anywhere you want.

Michelle Bachman:

Exactly why? Because this Learning Robotics Using Python is an unordinary book that the inside of the e-book waiting for you to snap this but latter it will distress you with the secret the item inside. Reading this book beside it was fantastic author who have write the book in such awesome way makes the content within easier to understand, entertaining means but still convey the meaning entirely. So , it is good for you for not hesitating having this any more or you going to regret it. This unique book will give you a lot of positive aspects than the other book have got such as help improving your skill and your critical thinking approach. So , still want to hold off having that book? If I have been you I will go to the guide store hurriedly.

Annie Smith:

Learning Robotics Using Python can be one of your nice books that are good idea. Many of us recommend that straight away because this book has good vocabulary that may increase your knowledge in language, easy to understand, bit entertaining however delivering the information. The writer giving his/her effort to get every word into satisfaction arrangement in writing Learning Robotics Using Python nevertheless doesn't forget the main point, giving the reader the hottest in addition to based confirm resource facts that maybe you can be considered one of it. This great information can certainly drawn you into brand-new stage of crucial considering.

Carmine Caulfield:

As we know that book is essential thing to add our understanding for everything. By a guide we can know everything we really wish for. A book is a pair of written, printed, illustrated or maybe blank sheet. Every year seemed to be exactly added. This publication Learning Robotics Using Python was filled in relation to science. Spend your time to add your knowledge about your scientific research competence. Some people has different feel when they reading the book. If you know how big good thing about a book, you can really feel enjoy to read a book. In the modern era like right now, many ways to get book that you simply wanted.

**Download and Read Online Learning Robotics Using Python Lentin
Joseph #7X4ZEHRSDOW**

Read Learning Robotics Using Python by Lentin Joseph for online ebook

Learning Robotics Using Python by Lentin Joseph Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Learning Robotics Using Python by Lentin Joseph books to read online.

Online Learning Robotics Using Python by Lentin Joseph ebook PDF download

Learning Robotics Using Python by Lentin Joseph Doc

Learning Robotics Using Python by Lentin Joseph Mobipocket

Learning Robotics Using Python by Lentin Joseph EPub