

Mastering ROS for Robotics Programming (Paperback)



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Reviews

Unquestionably, this is the best work by any author. Better than ever, though I am quite late in starting to read this one. I realized this publication from my dad and I advised this PDF to find out.
(Nelson Zemlak)

MASTERING ROS FOR ROBOTICS PROGRAMMING (PAPERBACK)



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Packt Publishing Limited, United Kingdom, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Design, build and simulate complex robots using Robot Operating System and master its out-of-the-box functionalities About This Book * Develop complex robotic applications using ROS for interfacing robot manipulators and mobile robots with the help of high end robotic sensors * Gain insights into autonomous navigation in mobile robot and motion planning in robot manipulators * Discover the best practices and troubleshooting solutions everyone needs when working on ROS Who This Book Is For If you are a robotics enthusiast or researcher who wants to learn more about building robot applications using ROS, this book is for you. In order to learn from this book, you should have a basic knowledge of ROS, GNU/Linux, and C++ programming concepts. The book will also be good for programmers who want to explore the advanced features of ROS. What You Will Learn * Create a robot model of a Seven-DOF robotic arm and a differential wheeled mobile robot * Work with motion planning of a Seven-DOF arm using MoveIt! * Implement autonomous navigation in differential drive robots using SLAM and AMCL packages in ROS * Dig deep into the ROS Pluginlib, ROS nodelets, and Gazebo plugins * Interface I/O boards such as Arduino, Robot sensors, and High end actuators with ROS * Simulation and motion planning of ABB and Universal arm using ROS Industrial * Explore the ROS framework using its latest version In Detail The area of robotics is gaining huge momentum among corporate people, researchers, hobbyists, and students. The major challenge in robotics is its controlling software. The Robot Operating System (ROS) is a modular software platform to develop generic robotic applications. This book discusses the advanced concepts in robotics and how...



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