1. Record Nr. UNISA990002147080203316

Autore	DAVIS, Lance
Titolo	Institutional change and american economic growth / Lance Davis, Douglass C. North
Pubbl/distr/stampa	London, : Cambridge University Press, 1971
Descrizione fisica	VII, 282 p. ; 24 cm
Altri autori (Persone)	NORTH, Douglass C.
Collocazione	332 DAV 1 (IEP VI 56)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

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Autore	Fairchild Carol
Titolo	ROS robotics by example : bring life to your robot using ROS robotic applications / / Carol Fairchild, Dr. Thomas L. Harman
Pubbl/distr/stampa	Birmingham : , : Packt Publishing, , 2016
ISBN	1-78528-670-6
Edizione	[1st edition]
Descrizione fisica	1 online resource (428 pages) : color illustrations
Collana	Community experience distilled
Soggetti	Personal robotics Robots - Control systems Robots - Programming Robots
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Sommario/riassunto	Bring life to your robot using ROS robotic applications About This Book

This book will help you boost your knowledge of ROS and give you advanced practical experience you can apply to your ROS robot platforms This is the only book that offers you step-by-step instructions to solidify your ROS understanding and gain experience using ROS tools From eminent authors, this book offers you a plethora of fun-filled examples to make your own quadcopter, turtlebot, and two-armed robots Who This Book Is For If you are a robotics developer, whether a hobbyist, researchers or professional, and are interested in learning about ROS through a hands-on approach, then this book is for you. You are encouraged to have a working knowledge of GNU/Linux systems and Python. What You Will Learn Get to know the fundamentals of ROS and apply its concepts to real robot examples Control a mobile robot to navigate autonomously in an environment Model your robot designs using URDF and Xacro, and operate them in a ROS Gazebo simulation Control a 7 degree-of-freedom robot arm for visual servoing Fly a quadcopter to autonomous waypoints Gain working knowledge of ROS tools such as Gazebo, rviz, rqt, and Move-It Control robots with mobile devices and controller boards In Detail The visionaries who created ROS developed a framework for robotics centered on the commonality of robotic systems and exploited this commonality in ROS to expedite the development of future robotic systems. From the fundamental concepts to advanced practical experience, this book will provide you with an incremental knowledge of the ROS framework, the backbone of the robotics evolution. ROS standardizes many layers of robotics functionality from low-level device drivers to process control to message passing to software package management. This book provides step-by-step examples of mobile, armed, and flying robots, describing the ROS implementation as the basic model for other robots of these types. By controlling these robots, whether in simulation or in reality, you will use ROS to drive, move, and fly robots using ROS control. Style and approach This is an easy-to-follow guide with hands-on examples of ROS robots, both real and in simulation.