Robot Programming: A Guide to Controlling Autonomous Robots

Cameron Hughes, Tracey Hughes

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Start programming robots NOW!

Learn hands-on, through easy examples, visuals, and code

This is a unique introduction to programming robots to execute tasks autonomously. Drawing on years of experience in artificial intelligence and robot programming, Cameron and Tracey Hughes introduce the reader to basic concepts of programming robots to execute tasks without the use of remote controls.

Robot Programming: A Guide to Controlling Autonomous Robots takes the reader on an adventure through the eyes of Midamba, a lad who has been stranded on a desert island and must find a way to program robots to help him escape. In this guide, you are presented with practical approaches and techniques to program robot sensors, motors, and translate your ideas into tasks a robot can execute autonomously. These techniques can be used on today's leading robot microcontrollers (ARM9 and ARM7) and robot platforms (including the wildly popular low-cost Arduino platforms, LEGO® Mindstorms EV3, NXT, and Wowee RS Media Robot) for your hardware/Maker/DIY projects. Along the way the reader will learn how to:

- Program robot sensors and motors
- Program a robot arm to perform a task
- Describe the robot's tasks and environments in a way that a robot can process using robot S.T.O.R.I.E.S.
- Develop a R.S.V.P. (Robot Scenario Visual Planning) used for designing the robot's tasks in an environment
- Program a robot to deal with the "unexpected" using robot S.P.A.C.E.S.
- Program robots safely using S.A.R.A.A. (Safe Autonomous Robot Application Architecture) Approach
- Program robots using Arduino C/C++ and Java languages
- Use robot programming techniques with LEGO® Mindstorms EV3, Arduino, and other ARM7 and ARM9-based robots.

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