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Build Your Own Teams of Robots with LEGO® Mindstorms® NXT and Bluetooth®

Cameron Hughes, Tracey Hughes, Trevor Watkins, Bob Kramer

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CREATE YOUR OWN SYNCHRONIZED ROBOT ARMY!

PLAN, DESIGN, ASSEMBLE, AND PROGRAM ROBOT SQUADS THAT COMMUNICATE and cooperate with each other to accomplish together what they can’t do individually. *Build Your Own Teams of Robots with LEGO MINDSTORMS NXT and Bluetooth* shows you how to construct a team capability matrix (TCM) and use the Bluetooth Robotic-Oriented Network (BRON) so your robot teams can share sensors, actuators, end effectors, motor power, and programs.

Find out how the Bluetooth communications protocol works and how to program Bluetooth in NXT-G, NXC, LabVIEW, and Java. Learn how to send and receive Bluetooth messages, data, and commands among robots, between a robot and a computer, and between an Android smart phone and a robot. Through teamwork, your robots will be able to accomplish amazing feats!

THE STEP-BY-STEP ROBOT TEAM PROJECTS IN THE BOOK INCLUDE:
* Crime Scene Investigation Robot Team * Robot Convoy * Rubik's Cube Solver

LEARN HOW TO:

- Coordinate multiple robots to work together as a team to perform tasks
- Combine two or more microcontrollers to make a single, multicontroller/multi-agent robot
- Take advantage of sensor and actuator capabilities in a team environment
- Establish goals and teamwork strategies for your robots
- Control your robot teams with NXT-G Bluetooth bricks and LabVIEW for NXT Bluetooth VI
- Activate your team using a smart phone
- Give your team of robots Java power with leJOS
- Use Java on the Linux and Darwin operating systems

Watch video demonstrations of the projects and download code and examples in multiple languages (NXT-G, Java, LabVIEW, and NXC) from the book's companion website at www.robotteams.org.

Downloads are also available at mhprofessional.com/robotteams.

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Samantha Campbell:

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Olive Wilson:

Reading a book tends to be new life style in this era globalization. With examining you can get a lot of information which will give you benefit in your life. Using book everyone in this world can share their idea. Books can also inspire a lot of people. Plenty of author can inspire their particular reader with their story or maybe their experience. Not only the story that share in the publications. But also they write about the ability about something that you need illustration. How to get the good score toefl, or how to teach your children, there are many kinds of book that exist now. The authors in this world always try to improve their skill in writing, they also doing some research before they write to the book. One of them is this Build Your Own Teams of Robots with LEGO® Mindstorms® NXT and Bluetooth®.

Jamie Leal:

Spent a free time and energy to be fun activity to do! A lot of people spent their down time with their family, or all their friends. Usually they undertaking activity like watching television, likely to beach, or picnic inside park. They actually doing same every week. Do you feel it? Will you something different to fill your current free time/ holiday? Could be reading a book is usually option to fill your totally free time/ holiday. The first thing you ask may be what kinds of e-book that you should read. If you want to test look for book, may be the publication untitled Build Your Own Teams of Robots with LEGO® Mindstorms® NXT and Bluetooth® can be very good book to read. May be it may be best activity to you.

Carolyn Scott:

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reserve. It is most important to arrange yourself to make your knowledge are still up-date. Let's try to choose appropriate ways for you.

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