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Dennis Clark



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Sensor Fusion Ciza Thomas, 2011-06-13 *Sensor Fusion Foundation and Applications* comprehensively covers the foundation and applications of sensor fusion. This book provides some novel ideas, theories, and solutions related to the research areas in the field of sensor fusion. The book explores some of the latest practices and research works in the area of sensor fusion. The book contains chapters with different methods of sensor fusion for different engineering as well as non-engineering applications. Advanced applications of sensor fusion in the areas of mobile robots, automatic vehicles, airborne threats, agriculture, medical field, and intrusion detection are covered in this book. Sufficient evidences and analyses have been provided in the chapter to show the effectiveness of sensor fusion in various applications. This book would serve as an invaluable reference for professionals involved in various applications of sensor fusion.

Making Things Talk Tom Igoe, 2007-09-28 This book contains a series of projects that teaches readers what they need to know to get their creations talking to each other, connecting to the Web, and forming networks of smart devices.

Mobile Robots Zoran Gacovski, 2011-10-26 This book consists of 18 chapters divided in four sections: Robots for Educational Purposes, Health Care and Medical Robots, Hardware, State of the Art and Localization and Navigation. In the first section, there are four chapters covering autonomous mobile robot Emmy III, KCLBOT mobile nonholonomic robot, and general overview of educational mobile robots. In the second section, the following themes are covered: walking support robots, control system for wheelchairs, leg wheel mechanism as a mobile platform, micro mobile robot for abdominal use, and the influence of the robot size in the psychological treatment. In the third section, there are chapters about I2C bus system, vertical displacement service robots, quadruped robots, kinematics and dynamics model, and Epi q hybrid robots. Finally, in the last section, the following topics are covered: skid-steered vehicles, robotic exploration, new place recognition, omnidirectional mobile robots, ball wheel mobile robots, and planetary wheeled mobile robots.

Physicomimetics William M. Spears, Diana F. Spears, 2012-01-05 Standard approaches to understanding swarms rely on inspiration from biology and are generally covered by the term biomimetics. This book focuses on a different complementary inspiration, namely physics. The editors have introduced the term physicomimetics to refer to physics-based swarm approaches which offer two advantages. First, they capture the notion that nature is lazy, meaning that physics-based systems always perform the minimal amount of work necessary, which is an especially important advantage in swarm robotics. Second, physics is the most predictive science and can reduce complex systems to simple concepts and equations that codify emergent behavior and help us to design and understand swarms. The editors consolidated over a decade of work on swarm intelligence and swarm robotics, organizing the book into 19 chapters as follows: Part I introduces the concept of swarms and offers the reader a physics tutorial; Part II deals with applications of physicomimetics in order of increased complexity; Part III examines the hardware requirements of the presented algorithms and demonstrates real robot implementations; Part IV demonstrates how the theory can be used to design swarms from first

principles and provides a novel algorithm that handles changing environments finally Part V shows that physicomimetics can be used for function optimization moving the reader from issues of swarm robotics to swarm intelligence The text is supported with a downloadable package containing simulation code and videos of working robots This book is suitable for talented high school and undergraduate students as well as researchers and graduate students in the areas of artificial intelligence and robotics

Programming and Customizing the OOPic Microcontroller Dennis Clark,2003 this authoritative guide delves deeply into this groundbreaking technology and delivers a programming guide and application notes dedicated to the OOPic environment This title includes a full object listing as well as an IDE Integrated Development Interface hardware and software guide and a CD OM with all project and experiment codes that you incorporate to customise your own projects Stay ahead of the robotics curve tap into the power of OOPic microcontrollers with this indispensable volume

Unmanned Systems Technology ,2006

Notes on Compass Work J. F. Y. Kemp,1977

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