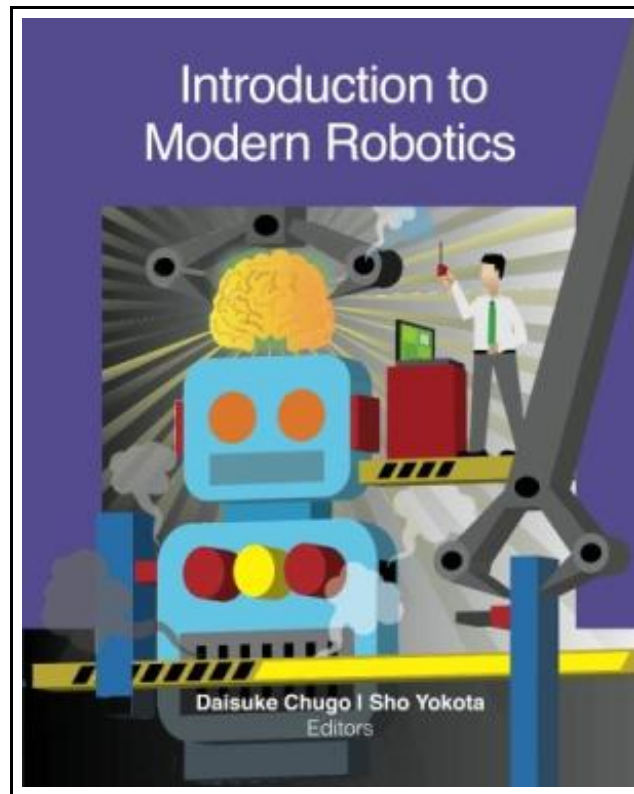# Introduction to Modern Robotics

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INTRODUCTION TO MODERN ROBOTICS

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Createspace, United States, 2012. Paperback. Book Condition: New. 252 x 202 mm. Language: English . Brand New Book ***** Print on Demand *****.Introduction to Modern Robotics provides a practical guide about designing, building and programming a modern robotics system. It presents a collection of wide range research results from the robotics community. Chapter 1 presents the development of a connected crawler robot for rough terrain. It specifically focuses on the number of crawler stages should be connected. Chapter 2 shows the design and development process of a humanoid robotic platform that combines power efficiency with flexible and robust motion (such as balancing the need for human-like walking capabilities) without complex computation. Chapter 3 proposes a developmental model for the acquisition of motion in an infant robot by using oscillators. Chapter 4 presents an innovative concept of artificial communication partners with a multi-agent mind model in order for realization of intuitive human-robot interaction. Chapter 5 describes an approach for a robot to self-recognize his/her image on a mirror, an important milestone towards implementing theory of mind on a humanoid robot. Chapter 6 outlines relationships between robotics and software engineering, motivates and illustrates the link between component based software engineering and a service-oriented robotic component model. Chapter 7 explores both the management and the technical aspect of a modern robotic team in the platform of a robot cup competition. Chapter 8 focuses on the methods for evolving a cooperative team for a minimal soccer game by conducting a comparative evaluation of 18 methods, and shows that there are complex correlations among design decisions. Chapter 9 introduces a new coordinative control system for multi-robot system through network software platform. Chapter 10 studies Social Odometry, a new approach to multi-robot localization based on local communication, which confers the robots the possibility to learn from...

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