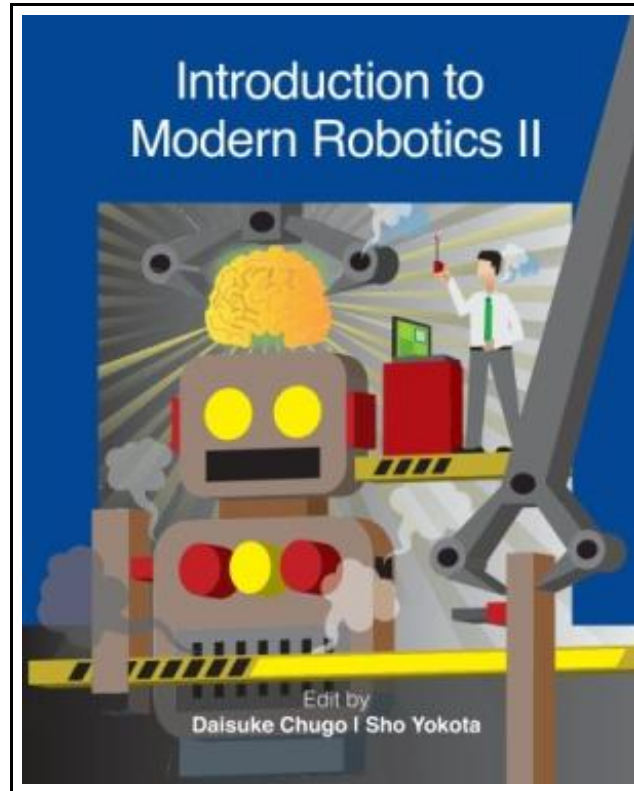


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Createspace, United States, 2012. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****.This book is a practical guide about designing, building and programming modern robotics systems. It presents a collection of wide range research results from the robotics community. Various aspects of current research in robotics area are explored and discussed. In particular, the major part of the book is devoted to robotic vision systems, robot navigation, human-robot interactions and adaptive learning systems. Different approaches including theorems and formal proofs for these systems are provided. Some advanced mathematics will be involved. There are totally 15 chapters in this book. Chapter 1 analyzes and compares two robotics frameworks based on the identified requirements, and discusses the benefits and drawbacks of using robotics frameworks. Chapter 2 shows how mechatronics and robotics are fused with objects of daily life to become assistive systems, and thus become an integral part of our built environment. Chapter 3 describes a new framework for solving robotic navigation problems in a continuous environment. The framework balances between exploration and exploitation, and integrates global planning algorithms, local navigation routines, and exploration procedures in order to achieve the global goal. Chapter 4 addresses the Coverage Path Planning (CPP) problem applied to aerial robots whose mission is to visual cover a determinate wide area. Chapter 5 proposes a planning method to unravel deformable linear objects based on their silhouette, which corresponds to imperfect state information. Chapter 6 proposes a design method for the wheeled vehicle with the passive linkage mechanism for increasing step-climbing performance. Chapter 7 proposes an algorithm for identifying structural motifs. Chapter 8 discusses how we can use Reinforcement Learning to learn how to move a group of servos in order to achieve a motion behavior. Chapter 9 reviews the...



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