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Nota di contenuto	1. Safe Human-Robot Interaction Using Variable Stiffness, Hyper-Redundancy, and Smart Robotic Skins -- 2. Application of Artificial Intelligence (AI) in Prosthetic and Orthotic Rehabilitation -- 3. Development of a Versatile Modular Platform for Aerial Manipulators -- 4. Guidance-Based Motion Planning of Autonomous Systems -- 5. Conversion of a Conventional Wheelchair into an Autonomous Personal Transportation Testbed -- 6. Embedded Devices Security Based on ICMetric Technology -- 7. Manipulating Complex Robot Behavior for Autonomous and Continuous Operations -- 8. Robotization and Welfare Trends in Future.
Sommario/riassunto	We feel the impact of robots on our lives more and more every day. Service robots constitute the broadest and the most exciting applications in this field, such as; personal care and assistance, agriculture, logistics, mobility, medical, and defense-oriented robots. Since service robotics contains many different types of robots, the variety of problems to be solved is also large. Many popular robotic problems, ranging from mechanism design to simultaneous localization and mapping (SLAM), from motion planning to system security, can be examined in this context. You will find various examples and solutions for this critical area of robotics in this book. We hope that researchers interested in the subject will benefit from this book.