1. Record Nr. UNINA9910765535603321 Multi-Robot Systems - New Advances / / edited by Serdar Kucuk, **Titolo** Andries Engelbrecht Pubbl/distr/stampa London:,:IntechOpen,,2023 **ISBN** 1-83768-289-5 Descrizione fisica 1 online resource (146 pages) 629.892 Disciplina Soggetti Robotics Manipulators (Mechanism) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia 1. Introductory Chapter: Multi-Robot Systems Changing the Human Life Nota di contenuto -- 2. Trajectory Planning -- 3. A Multi-Layer, Multi-Robot Control Architecture for Long-Range, Dynamic Communication Links -- 4. Controlling a Fleet of Autonomous LHD Vehicles in Mining Operation --5. Geometric Control of Robotic Systems -- 6. Challenges and Trends of Machine Learning in the Myoelectric Control System for Upper Limb Exoskeletons and Exosuits -- 7. The Use of Machine Vision in the Diagnosis of Ripening Strawberries. Sommario/riassunto Robotics is an important part of modern engineering involving electricity and electronics, computers, mathematics, and mechanism design. In recent years, in addition to serial robots, multi-robot systems have begun to attract the attention of students, academics, and industry workers. This interest has directly impacted the development of novel theoretical research areas and products. This book explores new developments in multi-robot systems, such as trajectory planning, control algorithms, and programming.