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Autore	Gini Giuseppina
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Descrizione fisica	1 online resource (490 pages)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1566
Disciplina	006.3
Soggetti	Computational intelligence Artificial intelligence Automatic control Robotics Automation Computational Intelligence Artificial Intelligence Control, Robotics, Automation Control and Systems Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Guaranteed Collision Avoidance Control Framework for Multiple Unmanned Underwater Vehicles in Highly Constrained Spaces -- Model-Based Switching MPC Strategy for Energy Management in HVAC Systems -- Using Stochastic Local Search SAT Algorithms to Solve Multi-Agent -- Pathfinding with Edge Conflict Prevention -- A Constraint- and Search-Based Approach on Fixed Time Step-Based Solving of the Stockyard Planning Problem -- Safety Assessment in Human-Robot Collaborative Assembly Using Colored Petri Nets -- Control System Design and Simulation of a Tethered Drone for Airport Operations -- Enhancing Control Performance in Non-Linear Processes: A Comparative Study of Adaptive PID Control Approaches -- Sliding Mode-Based Trajectory Tracking in Inverse Response Systems: A Software and Experimental Study -- Smart Vision Aid for the Blind:

Enhancing Exploration -- Open-Source Educational Robot for Resource-Constrained Environments -- Automatic Circular Take-off and Landing for Tethered Aircraft -- Analysis and Optimal Control of the Impact of Large People Mass Fluxes on Epidemics Spread -- Identification and Feed-Forward Control of Piezoelectric Bender Using Hammerstein Hysteresis Model -- A Cellular Automata Model for Simulating Eruptive Activity -- Knowledge Graph Extraction from Retrieval-Augmented Generator: Application to Defect Classification in Aluminium Die-Casting.

Sommario/riassunto

This book focuses on the latest research and development in control, robotics, and automation. Through fifteen revised and expanded articles, it provides a state-of-the-art overview of these fields, offering researchers, PhD students, and engineers both updated knowledge and inspiration. The editors have intentionally balanced theoretical aspects with practical accomplishments and implementations, creating a book that offers a factual perspective on current research. The book's inclusion of non-standard applications of identification and control is a further key strength.
