

1. Record Nr.	UNINA9910765480603321
Autore	Sharma Sanjay
Titolo	Intelligent Control, Robotics, and Industrial Automation : Proceedings of International Conference, RCAAII 2022 // edited by Sanjay Sharma, Bidyadhar Subudhi, Umesh Kumar Sahu
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	9789819946341 9819946344
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (1039 pages)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1066
Altri autori (Persone)	SubudhiBidyadhar SahuUmesh Kumar
Disciplina	629.89263
Soggetti	Automatic control Robotics Automation Artificial intelligence Industrial engineering Control, Robotics, Automation Artificial Intelligence Industrial Automation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Landmark Detection for Auto Landing of Quadcopter using YOLOv5 -- ROS-based Evaluation of SLAM algorithms and Autonomous Navigation for a Mecanum Wheeled Robot -- An Autonomous Home Assistant Robot for Elderly Care -- 3-D Mapping using Multi-Agent Systems -- Design of Robotic Platform for ADAS Testing -- Design of a novel tree-type robot for pipeline repair -- Comparative Empirical Analysis of Biomimetic Curvy Legged Bipedal Robot with Linear Legged Bipedal Robot -- Energy based Approach for Robot Trajectory Selection in Task Space -- A novel collision avoidance system for two-wheeler vehicles with an automatic gradual brake mechanism -- Development of a Digital Twin Interface for a Collaborative Robot -- Fixed-Time Information Detection based Secondary Control Strategy for Low

Voltage Autonomous Microgrid -- Approximation of Standalone Boost-Converter Enabled Hybrid Solar-Photovoltaic Controller System -- Trajectory Tracking with RBF Network Estimator and Dynamic Adaptive SMC Controller for RobotManipulator -- Simplified Current Control Method for FOC of Permanent Magnet Synchronous Motor -- Reference spectrum tracking for circadian entrainment -- Error Minimization Based Order Diminution of Interconnected Wind Turbine Generator -- AR and IoT Integrated Machine Environment (AIIME) -- Development of affordable smart and secure multilayer locker system for domestic applications -- IoT and ML-based personalised healthcare system for heart patients.

Sommario/riassunto

This volume comprises peer-reviewed proceedings of the International Conference on Robotics, Control, Automation, and Artificial Intelligence (RCAAI 2022). It aims to provide a broad spectrum picture of the state of art research and development in the areas of intelligent control, the Internet of Things, machine vision, cybersecurity, robotics, circuits, and sensors, among others. This volume will provide a valuable resource for those in academia and industry.
