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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 Robot Manipulator -- 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.

Sommarioriassunto

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.