ICAROB2024 DOIs List

ID	DOI	URL	Title
PS1	10.5954/ICAROB.2024.PS1	https://www.doi.org/10.5954/ICAROB.2024.PS1	Developing a High-Speed Working Motion of the Multi Robot in DENSO
PS2	10.5954/ICAROB.2024.PS2	https://www.doi.org/10.5954/ICAROB.2024.PS2	Experimenting with Variable Arm Quadrotors: Realizing Dynamic Configurations for Enhanced Flight Performance
PS3	10.5954/ICAROB.2024.PS3	https://www.doi.org/10.5954/ICAROB.2024.PS3	Artificial Intelligence and Technologies of Arm-type and Mobile Robots in Industry
OS1-1	10.5954/ICAROB.2024.OS1-1	https://www.doi.org/10.5954/ICAROB.2024.OS1-1	The Detecting Abnormal Operations in ICS Using Finite-State Machines
OS1-2	10.5954/ICAROB.2024.OS1-2	https://www.doi.org/10.5954/ICAROB.2024.OS1-2	Industrial Control System State Monitor Using Blockchain Technology
OS1-3	10.5954/ICAROB.2024.OS1-3	https://www.doi.org/10.5954/ICAROB.2024.OS1-3	Enhancing Dam Security and Water Level Alerting with Blockchain Technology
OS1-4	10.5954/ICAROB.2024.OS1-4	https://www.doi.org/10.5954/ICAROB.2024.OS1-4	MiniDAM: A Dam Cybersecurity Toolkit
OS1-5	10.5954/ICAROB.2024.OS1-5	https://www.doi.org/10.5954/ICAROB.2024.OS1-5	A Case Study of Network-Based Intrusion Detection System Deployment in Industrial Control Systems with Network Isolation
OS1-6	10.5954/ICAROB.2024.OS1-6	https://www.doi.org/10.5954/ICAROB.2024.OS1-6	The AI integration service innovation model of real estate industry in Taiwan
OS2-1	10.5954/ICAROB.2024.OS2-1	https://www.doi.org/10.5954/ICAROB.2024.OS2-1	A Study on Sales Patterns for Vegetable Products in Retail Stores
OS2-2	10.5954/ICAROB.2024.OS2-2	https://www.doi.org/10.5954/ICAROB.2024.OS2-2	Research and Implementation of Cooperative Control for ROS Mobile Robot
OS2-3	10.5954/ICAROB.2024.OS2-3	https://www.doi.org/10.5954/ICAROB.2024.OS2-3	An OpenCV-based Method for Workpiece Residue Image Processing
OS2-4	10.5954/ICAROB.2024.OS2-4	https://www.doi.org/10.5954/ICAROB.2024.OS2-4	On Nonblockingness Verification and Enforcement of Controlled Nondeterministic DiscreteEvent Systems
OS2-5	10.5954/ICAROB.2024.OS2-5	https://www.doi.org/10.5954/ICAROB.2024.OS2-5	Modeling and Reachability Verification of Controlled Nondeterministic Finite-State Automata
OS3-1	10.5954/ICAROB.2024.OS3-1	https://www.doi.org/10.5954/ICAROB.2024.OS3-1	Detection and Identification of Daylily Maturity Based on YOLOv8
OS3-2	10.5954/ICAROB.2024.OS3-2	https://www.doi.org/10.5954/ICAROB.2024.OS3-2	Chaos Synchronization and Circuit Design of Chen System and Lテシ System with Different Structures
OS3-3	10.5954/ICAROB.2024.OS3-3	https://www.doi.org/10.5954/ICAROB.2024.OS3-3	A Parking Space Recognition Method Based on Digital Image Technology
OS3-4	10.5954/ICAROB.2024.OS3-4	https://www.doi.org/10.5954/ICAROB.2024.OS3-4	A Design of Intelligent Handling Robot Based on AT89C52
OS3-5	10.5954/ICAROB.2024.OS3-5	https://www.doi.org/10.5954/ICAROB.2024.OS3-5	Application and Differences of Robotic Arms, Traditional Machines, and Manual Work in Production
OS3-6	10.5954/ICAROB.2024.OS3-6	https://www.doi.org/10.5954/ICAROB.2024.OS3-6	A Deep Exploration of the Mounting Issues Related to Six Rotor UVA
OS3-7	10.5954/ICAROB.2024.OS3-7	https://www.doi.org/10.5954/ICAROB.2024.OS3-7	The Application of Hexacopter UAV in The Field of Climbing Evasion
OS3-8	10.5954/ICAROB.2024.OS3-8	https://www.doi.org/10.5954/ICAROB.2024.OS3-8	Deep Learning and Embedded Based Operational Safety System for Special Vehicles
OS3-9	10.5954/ICAROB.2024.OS3-9	https://www.doi.org/10.5954/ICAROB.2024.OS3-9	"Green Fruit" - Intelligent Traceable Agricultural Product Production and Marketing Platform Based on Blockchain Technology
OS4-1	10.5954/ICAROB.2024.OS4-1	https://www.doi.org/10.5954/ICAROB.2024.OS4-1	A Digital Twin Design Based on Robot Workstation
OS4-2	10.5954/ICAROB.2024.OS4-2	https://www.doi.org/10.5954/ICAROB.2024.OS4-2	A Study of Chemical Reactor Simulation System Based on PCS7
OS4-3	10.5954/ICAROB.2024.OS4-3	https://www.doi.org/10.5954/ICAROB.2024.OS4-3	Analysis of Learning Quality Evaluation for University Student Courses with Process Assessment
OS4-4	10.5954/ICAROB.2024.OS4-4	https://www.doi.org/10.5954/ICAROB.2024.OS4-4	Motion Analysis and Transfer Applications Based on Posture Recognition
OS4-5	10.5954/ICAROB.2024.OS4-5	https://www.doi.org/10.5954/ICAROB.2024.OS4-5	Functional Safety Assessment of the Safety Protection System Based on Petri Net
OS4-6	10.5954/ICAROB.2024.OS4-6	https://www.doi.org/10.5954/ICAROB.2024.OS4-6	Pedestrian Attribute Recognition Based on Deep Learning
OS4-7	10.5954/ICAROB.2024.OS4-7	https://www.doi.org/10.5954/ICAROB.2024.OS4-7	Simulation of office air conditioning air supply based on COMSOL
OS4-8	10.5954/ICAROB.2024.OS4-8	https://www.doi.org/10.5954/ICAROB.2024.OS4-8	Solo Wheel Technology-Self-balancing Wheelbarrow
OS4-9	10.5954/ICAROB.2024.OS4-9	https://www.doi.org/10.5954/ICAROB.2024.OS4-9	Second-order Self-balancing Inverted Pendulum
OS4-10	10.5954/ICAROB.2024.OS4-10	https://www.doi.org/10.5954/ICAROB.2024.OS4-10	Design of Nanny's Abnormal Behavior Recognition Bracelet Based on Human Activity Recognition(HAR) Deep Learning Model
OS5-1	10.5954/ICAROB.2024.OS5-1	https://www.doi.org/10.5954/ICAROB.2024.OS5-1	Research on dynamic obstacle avoidance and complex path planning strategies based on ROS robots
OS5-2	10.5954/ICAROB.2024.OS5-2	https://www.doi.org/10.5954/ICAROB.2024.OS5-2	Research on Multi-Robot Formation on Two-Dimensional Plane
OS5-3	10.5954/ICAROB.2024.OS5-3	https://www.doi.org/10.5954/ICAROB.2024.OS5-3	The Development of Utilization Rate and Energy Consumption Monitoring and Networking System for Old Machine
OS5-4	10.5954/ICAROB.2024.OS5-4	https://www.doi.org/10.5954/ICAROB.2024.OS5-4	MCU Based Edge Computing Platform for Liquid Level Measurement
OS5-5	10.5954/ICAROB.2024.OS5-5	https://www.doi.org/10.5954/ICAROB.2024.OS5-5	Potential of genetic algorithms in multi-UAV coverage problem
OS5-6	10.5954/ICAROB.2024.OS5-6	https://www.doi.org/10.5954/ICAROB.2024.OS5-6	Construction of Anthropomorphic Grippers with Adaptive Control
OS6-1	10.5954/ICAROB.2024.OS6-1	https://www.doi.org/10.5954/ICAROB.2024.OS6-1	Simulation-Based Enhancement of SNR in Drone Communication through Uniform Linear Array Configurations
OS6-2	10.5954/ICAROB.2024.OS6-2	https://www.doi.org/10.5954/ICAROB.2024.OS6-2	Empowering Elderly Individuals through the Intelligent Shopping Trolley
OS6-3	10.5954/ICAROB.2024.OS6-3	https://www.doi.org/10.5954/ICAROB.2024.OS6-3	Optimized Microstrip Slot UWB Patch Antenna for Medical Imaging
OS6-4	10.5954/ICAROB.2024.OS6-4	https://www.doi.org/10.5954/ICAROB.2024.OS6-4	Development of an Innovative Undergraduate Industrial Automation and Robotics Degree Program
OS6-5	10.5954/ICAROB.2024.OS6-5	https://www.doi.org/10.5954/ICAROB.2024.OS6-5	Smart Assistive Trolley for Elderly Care and Independence
OS7-1	10.5954/ICAROB.2024.OS7-1	https://www.doi.org/10.5954/ICAROB.2024.OS7-1	Parallel Cross Window Attention Transformer and CNN Model for Segmentation of Instrument during Surgery
OS7-2	10.5954/ICAROB.2024.OS7-2	https://www.doi.org/10.5954/ICAROB.2024.OS7-2	Magnetic Resonance Spectroscopy (MRS) Reconstruction Using Style Transfer Deep Depth wise Framework
OS7-3	10.5954/ICAROB.2024.OS7-3	https://www.doi.org/10.5954/ICAROB.2024.OS7-3	Federated Learning on Brain Disease Research: Segmentation of Cerebral Small Vessel Diseases (CSVD) using Multi-scale Hybrid Spatial Deep Learning Approach
OS7-4	10.5954/ICAROB.2024.OS7-4	https://www.doi.org/10.5954/ICAROB.2024.OS7-4	Hybrid Classical and Quantum Deep Learning Models for Medical Image Classification
OS8-1	10.5954/ICAROB.2024.OS8-1	https://www.doi.org/10.5954/ICAROB.2024.OS8-1	Global Stabilization of A Class of Nonholonomic Integrators via Discontinuous Control
OS8-2	10.5954/ICAROB.2024.OS8-2	https://www.doi.org/10.5954/ICAROB.2024.OS8-2	Frequency Dependence Performance Limit of Vibration Absorbers

OS8-3	10.5954/ICAROB.2024.OS8-3	https://www.doi.org/10.5954/ICAROB.2024.OS8-3	Adaptive Concurrent Learning Algorithm Based on Pontryagin's Maximum Principle for Nonlinear System Optimal Tracking Control with State Inequality Constraints
OS8-4	10.5954/ICAROB.2024.OS8-4	https://www.doi.org/10.5954/ICAROB.2024.OS8-4	Privacy preserving Mean-square consensus for discrete-time heterogeneous multi-agent systems with Communication Noises
OS8-5	10.5954/ICAROB.2024.OS8-5	https://www.doi.org/10.5954/ICAROB.2024.OS8-5	Event-Triggered Consensus Control for Nonlinear Singular Multi-Agent Systems under Directed Topology
OS9-1	10.5954/ICAROB.2024.OS9-1	https://www.doi.org/10.5954/ICAROB.2024.OS9-1	An Improved Conversion Technique from EPNAT Models to VDM++ Specifications for Simulation of Abstract Software Behavior
OS9-2	10.5954/ICAROB.2024.OS9-2	https://www.doi.org/10.5954/ICAROB.2024.OS9-2	Prototype of RAGESS Which Is a Tool for Automatically Generating SwiftDiagram to Support iOS App Development
OS9-3	10.5954/ICAROB.2024.OS9-3	https://www.doi.org/10.5954/ICAROB.2024.OS9-3	Extension to Support Types and Operation/Function Definitions in BWDM to Generate Test Case Tool from the VDM++ Specification
OS9-4	10.5954/ICAROB.2024.OS9-4	https://www.doi.org/10.5954/ICAROB.2024.OS9-4	Proposal of ASLA Which Is a Segmentation and Labeling Tool for Document Images Based on Deep Learning
OS10-1	10.5954/ICAROB.2024.OS10-1	https://www.doi.org/10.5954/ICAROB.2024.OS10-1	A Design of a Modular Mobile Robot for Rescue Operations
OS10-2	10.5954/ICAROB.2024.OS10-2	https://www.doi.org/10.5954/ICAROB.2024.OS10-2	Implementation of Bug1 and Bug2 Basic Path-Planning Algorithms for a TurtleBot 3 Robot in ROS Noetic
OS10-3	10.5954/ICAROB.2024.OS10-3	https://www.doi.org/10.5954/ICAROB.2024.OS10-3	Implementation of Alg1 and Alg2 Path Planning Algorithms for Mobile Robots Using ROS Noetic
OS10-4	10.5954/ICAROB.2024.OS10-4	https://www.doi.org/10.5954/ICAROB.2024.OS10-4	Implementation of VisBug-21 and VisBug-22 Path Planning Algorithms Using ROS Noetic
OS10-5	10.5954/ICAROB.2024.OS10-5	https://www.doi.org/10.5954/ICAROB.2024.OS10-5	DistBug path planning algorithm package for ROS Noetic
OS10-6	10.5954/ICAROB.2024.OS10-6	https://www.doi.org/10.5954/ICAROB.2024.OS10-6	On sensor modeling in Gazebo simulator
OS11-1	10.5954/ICAROB.2024.OS11-1	https://www.doi.org/10.5954/ICAROB.2024.OS11-1	An Overview of Kinect Based Gesture Recognition Methods
OS11-2	10.5954/ICAROB.2024.OS11-2	https://www.doi.org/10.5954/ICAROB.2024.OS11-2	An investigation on the impact of human-robot interactions during an autonomous obstacle avoidance task
OS11-3	10.5954/ICAROB.2024.OS11-3	https://www.doi.org/10.5954/ICAROB.2024.OS11-3	A Comparative Analysis of Object Detection Methods for Robotic Grasping
OS11-4	10.5954/ICAROB.2024.OS11-4	https://www.doi.org/10.5954/ICAROB.2024.OS11-4	Vision-based autonomous navigation for medical examination using a UR3e manipulator
OS11-5	10.5954/ICAROB.2024.OS11-5	https://www.doi.org/10.5954/ICAROB.2024.OS11-5	Robot-Assisted Language Learning: Scientific Data Analysis
OS11-6	10.5954/ICAROB.2024.OS11-6	https://www.doi.org/10.5954/ICAROB.2024.OS11-6	Monitoring Beehive Sound Levels with Arduino-based System
OS12-1	10.5954/ICAROB.2024.OS12-1	https://www.doi.org/10.5954/ICAROB.2024.OS12-1	Restoration of Guqin Music by Deep Learning Methods
OS12-2	10.5954/ICAROB.2024.OS12-2	https://www.doi.org/10.5954/ICAROB.2024.OS12-2	Constructive Nurse Scheduling Using Reinforcement Learning Considering Variations in Nurse Work Patterns
OS12-3	10.5954/ICAROB.2024.OS12-3	https://www.doi.org/10.5954/ICAROB.2024.OS12-3	A Basic Study on Indicator of Transfer Learning for Reinforcement Learning
OS12-4	10.5954/ICAROB.2024.OS12-4	https://www.doi.org/10.5954/ICAROB.2024.OS12-4	Machine Learning Approach to Predict Cooling Load for Existing Buildings
OS13-1	10.5954/ICAROB.2024.OS13-1	https://www.doi.org/10.5954/ICAROB.2024.OS13-1	Intelligent Logistics Handling Robot: Design, Control, and Recognition
OS13-2	10.5954/ICAROB.2024.OS13-2	https://www.doi.org/10.5954/ICAROB.2024.OS13-2	Greenhouse Design Using Visual Recognition and IoT Technology
OS13-3	10.5954/ICAROB.2024.OS13-3	https://www.doi.org/10.5954/ICAROB.2024.OS13-3	A Design of Modular Photovoltaic Environmentally Friendly Portable Stroller
OS13-4	10.5954/ICAROB.2024.OS13-4	https://www.doi.org/10.5954/ICAROB.2024.OS13-4	"Teenage Mutant Ninja Turtles" - A Design of a Bionic Quadrupedal Rescue Robot
OS13-5	10.5954/ICAROB.2024.OS13-5	https://www.doi.org/10.5954/ICAROB.2024.OS13-5	Design of Grass Lattice Planter for Complex Environment Based on Adaptive Suspension Technology
OS13-6	10.5954/ICAROB.2024.OS13-6	https://www.doi.org/10.5954/ICAROB.2024.OS13-6	A Design of Intelligent Ecological Multifunctional Plant and Animal Breeding System
OS13-7	10.5954/ICAROB.2024.OS13-7	https://www.doi.org/10.5954/ICAROB.2024.OS13-7	Design of a Fully Automated Logistics Handling Platform
OS13-8	10.5954/ICAROB.2024.OS13-8	https://www.doi.org/10.5954/ICAROB.2024.OS13-8	Design and Application of AI-based Brush Calligraphy and Painting Robot
OS13-9	10.5954/ICAROB.2024.OS13-9	https://www.doi.org/10.5954/ICAROB.2024.OS13-9	Intelligent Wheelchair System : on-contact Heart Rate and Body Temperature Measurement
OS13-10	10.5954/ICAROB.2024.OS13-10	https://www.doi.org/10.5954/ICAROB.2024.OS13-10	Recognition and Localization Method for Automotive Axle Holes in Assembly Robots
OS14-1	10.5954/ICAROB.2024.OS14-1	https://www.doi.org/10.5954/ICAROB.2024.OS14-1	Evaluation Standard of Error Recovery Planning Focused on Revival Process from Failures in Robotic Manufacturing Plants
OS14-2	10.5954/ICAROB.2024.OS14-2	https://www.doi.org/10.5954/ICAROB.2024.OS14-2	Robotic Food Handling Utilizing Temperature Dependent Variable-Stiffness Material
OS14-3	10.5954/ICAROB.2024.OS14-3	https://www.doi.org/10.5954/ICAROB.2024.OS14-3	Fruits Maturity Classification for Harvesting Robot
OS15-1	10.5954/ICAROB.2024.OS15-1	https://www.doi.org/10.5954/ICAROB.2024.OS15-1	YOLO real-time object detection on EV3-Robot using FPGA hardware Accelerator
OS15-2	10.5954/ICAROB.2024.OS15-2	https://www.doi.org/10.5954/ICAROB.2024.OS15-2	A Low Computational Cost Hand Waving Action Recognition System with Echo State Network for Home Service Robots
OS15-3	10.5954/ICAROB.2024.OS15-3	https://www.doi.org/10.5954/ICAROB.2024.OS15-3	A Rapidly Adjustable Object Recognition System through Language Based Prompt Engineering
OS15-4	10.5954/ICAROB.2024.OS15-4	https://www.doi.org/10.5954/ICAROB.2024.OS15-4	Development of A SayCan-based Task Planning System Capable of Handling Abstract Nouns
OS15-5	10.5954/ICAROB.2024.OS15-5	https://www.doi.org/10.5954/ICAROB.2024.OS15-5	RoboCup@Home 2023: Stickler for the Rules Task Solutions
OS15-6	10.5954/ICAROB.2024.OS15-6	https://www.doi.org/10.5954/ICAROB.2024.OS15-6	Offloading Intellectual Processing from Home Service Robots to Edge Devices
OS16-1	10.5954/ICAROB.2024.OS16-1	https://www.doi.org/10.5954/ICAROB.2024.OS16-1	A Research on Performance Information Editing Support System for Automatic Piano
OS16-2	10.5954/ICAROB.2024.OS16-2	https://www.doi.org/10.5954/ICAROB.2024.OS16-2	Development of Autonomous Mobile Field Robot - Accuracy Verification of Self-Localization through Simulation -
OS16-3	10.5954/ICAROB.2024.OS16-3	https://www.doi.org/10.5954/ICAROB.2024.OS16-3	Development of AR System for Grasping String Foods on Introduction of Industrial Robot
OS16-4	10.5954/ICAROB.2024.OS16-4	https://www.doi.org/10.5954/ICAROB.2024.OS16-4	An Image Analysis of Coastal Debris Detection -Detection of microplastics using deep learning-
OS17-1	10.5954/ICAROB.2024.OS17-1	https://www.doi.org/10.5954/ICAROB.2024.OS17-1	A High-Speed Estimation Method of Parameters in Impulse Response
OS17-2	10.5954/ICAROB.2024.OS17-2	https://www.doi.org/10.5954/ICAROB.2024.OS17-2	A Consideration on Amplification Function in BJT Evers-Moll Model and PTT (I) ---- V-I Characteristics ----

OS17-3	10.5954/ICAROB.2024.OS17-3	https://www.doi.org/10.5954/ICAROB.2024.OS17-3	A Consideration on Amplification Function in BJT Evers-Moll Model and PTT (II) ----H Parameters in the Small Signal Amplifier Circuit----
OS17-4	10.5954/ICAROB.2024.OS17-4	https://www.doi.org/10.5954/ICAROB.2024.OS17-4	Color Image Arrangement Using Histogram Matching
OS17-5	10.5954/ICAROB.2024.OS17-5	https://www.doi.org/10.5954/ICAROB.2024.OS17-5	Methodology for Creativity Oriented STEM Education Based on ETT Theory
OS18-1	10.5954/ICAROB.2024.OS18-1	https://www.doi.org/10.5954/ICAROB.2024.OS18-1	Efficient Campus Shuttle Tracking and Management Mobile Application for College Campus
OS18-2	10.5954/ICAROB.2024.OS18-2	https://www.doi.org/10.5954/ICAROB.2024.OS18-2	GCN Analysis of Task-Based fMRI Data for Diagnosis of Schizophrenia
OS18-3	10.5954/ICAROB.2024.OS18-3	https://www.doi.org/10.5954/ICAROB.2024.OS18-3	AR Based Application for Campus Navigation
OS18-4	10.5954/ICAROB.2024.OS18-4	https://www.doi.org/10.5954/ICAROB.2024.OS18-4	Development of Robotic Assistant for Health Care Sector with A Special Focus to Aid the Geriatric Patients
OS18-5	10.5954/ICAROB.2024.OS18-5	https://www.doi.org/10.5954/ICAROB.2024.OS18-5	Development of a Desktop Application Restaurant Management System
OS18-6	10.5954/ICAROB.2024.OS18-6	https://www.doi.org/10.5954/ICAROB.2024.OS18-6	Face Recognition based on Attendance System
OS18-7	10.5954/ICAROB.2024.OS18-7	https://www.doi.org/10.5954/ICAROB.2024.OS18-7	U-Reserve: Development of a Facility Reservation System for UCSI University
OS18-8	10.5954/ICAROB.2024.OS18-8	https://www.doi.org/10.5954/ICAROB.2024.OS18-8	The Smart Document Processing with Artificial Intelligence
OS18-9	10.5954/ICAROB.2024.OS18-9	https://www.doi.org/10.5954/ICAROB.2024.OS18-9	Digital Security Challenges Faced by Business Organizations
OS18-10	10.5954/ICAROB.2024.OS18-10	https://www.doi.org/10.5954/ICAROB.2024.OS18-10	The Study on Perception on E-Waste Among the People
OS18-11	10.5954/ICAROB.2024.OS18-11	https://www.doi.org/10.5954/ICAROB.2024.OS18-11	Emergence of Cybercrimes in Online Social Networks
OS18-12	10.5954/ICAROB.2024.OS18-12	https://www.doi.org/10.5954/ICAROB.2024.OS18-12	Development of a music recommendation application by using facial emotion recognition
OS19-1	10.5954/ICAROB.2024.OS19-1	https://www.doi.org/10.5954/ICAROB.2024.OS19-1	A Model of Reaction-diffusion phenomena with Multiset Processing
OS19-2	10.5954/ICAROB.2024.OS19-2	https://www.doi.org/10.5954/ICAROB.2024.OS19-2	Extract tactile qualities from time series data
OS19-3	10.5954/ICAROB.2024.OS19-3	https://www.doi.org/10.5954/ICAROB.2024.OS19-3	Healthcare applications of vibrotactile stimulation developed by Tactile Score
OS20-1	10.5954/ICAROB.2024.OS20-1	https://www.doi.org/10.5954/ICAROB.2024.OS20-1	Image Collection Experiments of a Handy AUV for Offshore Structure Inspection
OS20-2	10.5954/ICAROB.2024.OS20-2	https://www.doi.org/10.5954/ICAROB.2024.OS20-2	Design of Disassembly-reassembly Type USV for Coral Reef Research
OS20-3	10.5954/ICAROB.2024.OS20-3	https://www.doi.org/10.5954/ICAROB.2024.OS20-3	Optimization method to improve visual SLAM in dynamic environment
OS20-4	10.5954/ICAROB.2024.OS20-4	https://www.doi.org/10.5954/ICAROB.2024.OS20-4	Design of flexible mechanism for flexible manipulator
OS20-5	10.5954/ICAROB.2024.OS20-5	https://www.doi.org/10.5954/ICAROB.2024.OS20-5	Research on Driver Drowsiness Detection Method based on Deep Learning
OS20-6	10.5954/ICAROB.2024.OS20-6	https://www.doi.org/10.5954/ICAROB.2024.OS20-6	An Analysis of Translational Motion for a Mobile Robot with Line-Symmetric Rollers Arrangement
OS20-7	10.5954/ICAROB.2024.OS20-7	https://www.doi.org/10.5954/ICAROB.2024.OS20-7	Development of Teaching Materials for Robot Programming for Junior High School Students: Student-Based Educational Activities
OS20-8	10.5954/ICAROB.2024.OS20-8	https://www.doi.org/10.5954/ICAROB.2024.OS20-8	Design and Software Production of Robotics Educational Design for Elementary and Junior High School Student
OS20-9	10.5954/ICAROB.2024.OS20-9	https://www.doi.org/10.5954/ICAROB.2024.OS20-9	Development of visual inspection system for low-reflective material utilizing of a string shadow
OS20-10	10.5954/ICAROB.2024.OS20-10	https://www.doi.org/10.5954/ICAROB.2024.OS20-10	Development of IoT-Based Remote Monitoring Module for Greenhouse Environment to Facilitate Crop Growth Data Analysis
OS20-11	10.5954/ICAROB.2024.OS20-11	https://www.doi.org/10.5954/ICAROB.2024.OS20-11	Development greenhouse environment prediction system using IoT data
OS20-12	10.5954/ICAROB.2024.OS20-12	https://www.doi.org/10.5954/ICAROB.2024.OS20-12	The Development of SaaS for Quantifying the Amount of Drifted Debris on the Coast
OS20-13	10.5954/ICAROB.2024.OS20-13	https://www.doi.org/10.5954/ICAROB.2024.OS20-13	Development of antagonistic wire-driven joint mechanism capable of rapid motion and variable stiffness
OS20-14	10.5954/ICAROB.2024.OS20-14	https://www.doi.org/10.5954/ICAROB.2024.OS20-14	Gakken Hills Interdisciplinary Ekiden Competing with Humans, Animals, and Robots
OS20-15	10.5954/ICAROB.2024.OS20-15	https://www.doi.org/10.5954/ICAROB.2024.OS20-15	Development of a Low-Cost Underwater Robot for Research and Education
OS21-1	10.5954/ICAROB.2024.OS21-1	https://www.doi.org/10.5954/ICAROB.2024.OS21-1	Enhancing Reconnaissance Missions Through Multiple Unmanned Systems in ROS
OS21-2	10.5954/ICAROB.2024.OS21-2	https://www.doi.org/10.5954/ICAROB.2024.OS21-2	Illumination Effects on Facial Expression Recognition using Empirical Mode Decomposition
OS21-3	10.5954/ICAROB.2024.OS21-3	https://www.doi.org/10.5954/ICAROB.2024.OS21-3	Supercontinuum Generation Pump By a Molybdenum Disulfide Based Soliton Mode-Locked Fiber Laser
OS22-1	10.5954/ICAROB.2024.OS22-1	https://www.doi.org/10.5954/ICAROB.2024.OS22-1	Adsorption Behavior of Arsenic and Selenium using NiZn Hydroxy Double Salts with Acetate, Chloride, Nitrate and Sulfate Anions
OS22-2	10.5954/ICAROB.2024.OS22-2	https://www.doi.org/10.5954/ICAROB.2024.OS22-2	Parallel acoustic analysis based on the domain decomposition method with higher-order element
OS22-3	10.5954/ICAROB.2024.OS22-3	https://www.doi.org/10.5954/ICAROB.2024.OS22-3	Sound field evaluation on the acoustical experiment using non-steady state analysis
OS22-4	10.5954/ICAROB.2024.OS22-4	https://www.doi.org/10.5954/ICAROB.2024.OS22-4	A Deep Insight method with Morphological Analysis
OS22-5	10.5954/ICAROB.2024.OS22-5	https://www.doi.org/10.5954/ICAROB.2024.OS22-5	Support for Museum Exhibition of Small Fungi using AR Technology
OS22-6	10.5954/ICAROB.2024.OS22-6	https://www.doi.org/10.5954/ICAROB.2024.OS22-6	Automatic Selection of High-Grade Dried Shiitake Mushrooms using Machine Learning
OS22-7	10.5954/ICAROB.2024.OS22-7	https://www.doi.org/10.5954/ICAROB.2024.OS22-7	Predicting High Volatility Cryptocurrency Prices using Deep Learning
OS22-8	10.5954/ICAROB.2024.OS22-8	https://www.doi.org/10.5954/ICAROB.2024.OS22-8	Simulation of Weathering Representation using Vertex and UV Information
OS23-1	10.5954/ICAROB.2024.OS23-1	https://www.doi.org/10.5954/ICAROB.2024.OS23-1	Investigating the Engineering Interventions in the Conservation of Malaysia Heritage Structures: A Review on Preserving Historical Edifices Through Advanced Civil Engineering Techniques.
OS23-2	10.5954/ICAROB.2024.OS23-2	https://www.doi.org/10.5954/ICAROB.2024.OS23-2	Drones and Data: A Comprehensive Exploration of UAVs in Data Mining
OS23-3	10.5954/ICAROB.2024.OS23-3	https://www.doi.org/10.5954/ICAROB.2024.OS23-3	Development of Variable Arm to Control the Manoeuvrability of Quadrotor
OS23-4	10.5954/ICAROB.2024.OS23-4	https://www.doi.org/10.5954/ICAROB.2024.OS23-4	Development of IoT-Enabled Smart Water Metering System
OS23-5	10.5954/ICAROB.2024.OS23-5	https://www.doi.org/10.5954/ICAROB.2024.OS23-5	Object Detection and Instance Segmentation with YOLOV8: Progress and Limitations
OS24-1	10.5954/ICAROB.2024.OS24-1	https://www.doi.org/10.5954/ICAROB.2024.OS24-1	A high-performance motion planning method based on asymptotically optimal RRT
OS24-2	10.5954/ICAROB.2024.OS24-2	https://www.doi.org/10.5954/ICAROB.2024.OS24-2	CSM-RRT*: an improved RRT* algorithm based on constrained sampling mechanism
OS24-3	10.5954/ICAROB.2024.OS24-3	https://www.doi.org/10.5954/ICAROB.2024.OS24-3	Small Sample Object Detection Based on Improved YOLOv5

OS24-4	10.5954/ICAROB.2024.OS24-4	https://www.doi.org/10.5954/ICAROB.2024.OS24-4	Research on Gas Pore Prediction Method Based on Sand Core Characteristic Time
OS24-5	10.5954/ICAROB.2024.OS24-5	https://www.doi.org/10.5954/ICAROB.2024.OS24-5	Optimization Analysis of a Deep Learning-Based Model for Predicting Temperature Fields in the Solidification Process of Castings
OS25-1	10.5954/ICAROB.2024.OS25-1	https://www.doi.org/10.5954/ICAROB.2024.OS25-1	Portable Green Energy Mobile Laptop Charging Station
OS25-2	10.5954/ICAROB.2024.OS25-2	https://www.doi.org/10.5954/ICAROB.2024.OS25-2	Auto Indoor Hydroponics Plant Growth Chamber
OS25-3	10.5954/ICAROB.2024.OS25-3	https://www.doi.org/10.5954/ICAROB.2024.OS25-3	A Design and Fabrication of a Solar Agriculture Water Pumping System
OS25-4	10.5954/ICAROB.2024.OS25-4	https://www.doi.org/10.5954/ICAROB.2024.OS25-4	Design and Performance of a Power Generating Manual Treadmill
OS25-5	10.5954/ICAROB.2024.OS25-5	https://www.doi.org/10.5954/ICAROB.2024.OS25-5	Smart Car Jack Using Internet of Things
OS25-6	10.5954/ICAROB.2024.OS25-6	https://www.doi.org/10.5954/ICAROB.2024.OS25-6	Gas Detection for Biogas System Using Internet-of-Things(IoT)
OS25-7	10.5954/ICAROB.2024.OS25-7	https://www.doi.org/10.5954/ICAROB.2024.OS25-7	IoT Based Smart Mushroom Growing Kit
OS25-8	10.5954/ICAROB.2024.OS25-8	https://www.doi.org/10.5954/ICAROB.2024.OS25-8	Design and Analysis of Artificial Magnetic Conductor for Metal Shielding Applications in RFID Car Detection Applications
OS25-9	10.5954/ICAROB.2024.OS25-9	https://www.doi.org/10.5954/ICAROB.2024.OS25-9	Effect of Fiber Orientation on the Mechanical Performance of Natural Fiber Polymer Composite Bicycle Frame using Finite Element Analysis
OS25-10	10.5954/ICAROB.2024.OS25-10	https://www.doi.org/10.5954/ICAROB.2024.OS25-10	Modelling of Short-Circuit Protection for A Residential Grid-Connected BESS
OS26-1	10.5954/ICAROB.2024.OS26-1	https://www.doi.org/10.5954/ICAROB.2024.OS26-1	An Intelligent Cargo/Warehouse Management System
OS26-2	10.5954/ICAROB.2024.OS26-2	https://www.doi.org/10.5954/ICAROB.2024.OS26-2	A Comprehensive Approach to Design and Implement an IoT-Enabled Intelligent Shopping Cart System with Obstacle-Aware Navigation and Enhanced Customer Engagement for Elevated Consumer Experiences
OS26-3	10.5954/ICAROB.2024.OS26-3	https://www.doi.org/10.5954/ICAROB.2024.OS26-3	A Design of Four-Port Flexible UWB-MIMO Antenna for Wearable and IoT Applications
OS26-4	10.5954/ICAROB.2024.OS26-4	https://www.doi.org/10.5954/ICAROB.2024.OS26-4	Investigate Power Efficiency in PLECS and MATLAB Software by Designing USB 5Watt Charger
OS26-5	10.5954/ICAROB.2024.OS26-5	https://www.doi.org/10.5954/ICAROB.2024.OS26-5	Design and Simulation and Performance of Grid Connected Photovoltaic System for Small, Tall Building in Malaysia
OS26-6	10.5954/ICAROB.2024.OS26-6	https://www.doi.org/10.5954/ICAROB.2024.OS26-6	A Design of Dual-Band Coplanar Waveguide (CPW) Printed Antenna for 1.9-3.6GHz Applications
OS26-7	10.5954/ICAROB.2024.OS26-7	https://www.doi.org/10.5954/ICAROB.2024.OS26-7	Optimized Convolutional Neural Network Towards Effective Wafer Defects Classification
OS26-8	10.5954/ICAROB.2024.OS26-8	https://www.doi.org/10.5954/ICAROB.2024.OS26-8	Tackling Photovoltaic (PV) Estimation Challenges: An Innovative AOA Variant for Improved Accuracy and Robustness
OS26-9	10.5954/ICAROB.2024.OS26-9	https://www.doi.org/10.5954/ICAROB.2024.OS26-9	Deep Learning in Manufacturing: A Focus on Welding Defect Classification with CNNs
OS26-10	10.5954/ICAROB.2024.OS26-10	https://www.doi.org/10.5954/ICAROB.2024.OS26-10	Enhancing Global Optimization Performance of Arithmetic Optimization Algorithm with a Modified Population Initialization Scheme
OS26-11	10.5954/ICAROB.2024.OS26-11	https://www.doi.org/10.5954/ICAROB.2024.OS26-11	Enhancing Precision Object Detection and Identification for Autonomous Vehicles through YOLOv5 Refinement with YOLO-ALPHA
OS27-1	10.5954/ICAROB.2024.OS27-1	https://www.doi.org/10.5954/ICAROB.2024.OS27-1	A Game Framework Based on the Disinformation Warfare in Russo-Ukrainian War
OS27-2	10.5954/ICAROB.2024.OS27-2	https://www.doi.org/10.5954/ICAROB.2024.OS27-2	A Comparative Analysis of Eye Tracking between Veteran and Novice during Radiological Interpretation
OS27-3	10.5954/ICAROB.2024.OS27-3	https://www.doi.org/10.5954/ICAROB.2024.OS27-3	Development of Notification System to Prevent Working Productivity from Declining Caused by Increased Carbon Dioxide Concentration
OS27-4	10.5954/ICAROB.2024.OS27-4	https://www.doi.org/10.5954/ICAROB.2024.OS27-4	Visualization of the Skilled Physician's Gaze characteristic during Diagnosis
OS27-5	10.5954/ICAROB.2024.OS27-5	https://www.doi.org/10.5954/ICAROB.2024.OS27-5	Toward Temporal Taste Sensing: Contrasting Human Experience with Machine Perception in Food Appreciation
GS1-1	10.5954/ICAROB.2024.GS1-1	https://www.doi.org/10.5954/ICAROB.2024.GS1-1	Deep Learning Based Prediction of Heat Transfer Coefficient Using Spectrogram Images from Boiling Sound
GS1-2	10.5954/ICAROB.2024.GS1-2	https://www.doi.org/10.5954/ICAROB.2024.GS1-2	A Study on Classification of Faulty Motor Sound Using Convolutional Neural Networks
GS1-3	10.5954/ICAROB.2024.GS1-3	https://www.doi.org/10.5954/ICAROB.2024.GS1-3	Design and Development of a Flexible Active Ankle Joint Orthosis for Locomotion Assistance
GS1-4	10.5954/ICAROB.2024.GS1-4	https://www.doi.org/10.5954/ICAROB.2024.GS1-4	A study on the Real-Time Biomechanical Analysis of Lumbar Burden Utilizing Stereoscope Cameras
GS1-5	10.5954/ICAROB.2024.GS1-5	https://www.doi.org/10.5954/ICAROB.2024.GS1-5	Verification of Determination Possibility using Convolutional Autoencoder for Machine Tool Abnormality Detection
GS1-6	10.5954/ICAROB.2024.GS1-6	https://www.doi.org/10.5954/ICAROB.2024.GS1-6	Basic Research for High-speed Heart Sound Determination using AI
GS1-7	10.5954/ICAROB.2024.GS1-7	https://www.doi.org/10.5954/ICAROB.2024.GS1-7	Prediction of High-Energy Electron Flux at Geosynchronous Orbit using a Neural Network Technique
GS1-8	10.5954/ICAROB.2024.GS1-8	https://www.doi.org/10.5954/ICAROB.2024.GS1-8	Image Gradient-based Monocular Visual-Inertial Odometry
GS2-1	10.5954/ICAROB.2024.GS2-1	https://www.doi.org/10.5954/ICAROB.2024.GS2-1	A Method for Embedding Multiple Photographic Images in a Photographic Image
GS2-2	10.5954/ICAROB.2024.GS2-2	https://www.doi.org/10.5954/ICAROB.2024.GS2-2	Generation of Flowing-Line Images Using Vertical and Horizontal Smoothing Filters
GS2-3	10.5954/ICAROB.2024.GS2-3	https://www.doi.org/10.5954/ICAROB.2024.GS2-3	Human Motion Recognition from Multiple Directions and Its Gait Cycles Analysis
GS2-4	10.5954/ICAROB.2024.GS2-4	https://www.doi.org/10.5954/ICAROB.2024.GS2-4	A Method of Improving the QOL of the People with Visual Impairment by MY VISION
GS2-5	10.5954/ICAROB.2024.GS2-5	https://www.doi.org/10.5954/ICAROB.2024.GS2-5	Human Behavior Segmentation and Recognition Using a Single-camera
GS3-1	10.5954/ICAROB.2024.GS3-1	https://www.doi.org/10.5954/ICAROB.2024.GS3-1	Online Classroom Student Engagement Analysis using Enhanced YOLOv5
GS3-2	10.5954/ICAROB.2024.GS3-2	https://www.doi.org/10.5954/ICAROB.2024.GS3-2	A Method of Recognizing Body Movements Based on a Self-viewpoint Video
GS3-3	10.5954/ICAROB.2024.GS3-3	https://www.doi.org/10.5954/ICAROB.2024.GS3-3	Supporting Safe Walk of a Visually Impaired Person at a Station Platform Based on MY VISION
GS4-1	10.5954/ICAROB.2024.GS4-1	https://www.doi.org/10.5954/ICAROB.2024.GS4-1	Development and evaluation of a learning support robot for vector learning
GS4-2	10.5954/ICAROB.2024.GS4-2	https://www.doi.org/10.5954/ICAROB.2024.GS4-2	A Feasibility Study on Methods to Measure the Strain on Young Children's Bodies.
GS4-3	10.5954/ICAROB.2024.GS4-3	https://www.doi.org/10.5954/ICAROB.2024.GS4-3	An Integration of Contact Force Models with Multibody Dynamics Analyses for Human Joint Mechanisms and Effects of Viscoelastic Ground Contact

GS4-4	10.5954/ICAROB.2024.GS4-4	https://www.doi.org/10.5954/ICAROB.2024.GS4-4	Haptic Sensation Enhancement via the Stochastic Resonance Effect and Its Application to Haptic Feedback for Myoelectric Prosthetic Hands
GS4-5	10.5954/ICAROB.2024.GS4-5	https://www.doi.org/10.5954/ICAROB.2024.GS4-5	PID Parameter Tuning of a Low-Cost DC Motor Speed Control for Mobile Robot Application
GS4-6	10.5954/ICAROB.2024.GS4-6	https://www.doi.org/10.5954/ICAROB.2024.GS4-6	Reinforcement Learning DDPG Algorithm Based Wheeled Mobility Aid Robot Control Methods
GS5-1	10.5954/ICAROB.2024.GS5-1	https://www.doi.org/10.5954/ICAROB.2024.GS5-1	Unsupervised image registration based on Residual-connected DRMINE for diagnostic metastatic bone tumors
GS5-2	10.5954/ICAROB.2024.GS5-2	https://www.doi.org/10.5954/ICAROB.2024.GS5-2	Developing a Smart Belt for Monitoring Elderly Activities Based on Multi-Modal Sensors Integration and Internet of Things
GS5-3	10.5954/ICAROB.2024.GS5-3	https://www.doi.org/10.5954/ICAROB.2024.GS5-3	A penalized motion detection model for extracting ionospheric echoes from low signal-to-noise ratio Ionogram video images
GS5-4	10.5954/ICAROB.2024.GS5-4	https://www.doi.org/10.5954/ICAROB.2024.GS5-4	Verification Experiments on the Lower Back Burden caused by Posture and Environment during Lifting Operations
GS6-1	10.5954/ICAROB.2024.GS6-1	https://www.doi.org/10.5954/ICAROB.2024.GS6-1	Development of Smartphone Application for Calculating the Low Back Pain Risk
GS6-2	10.5954/ICAROB.2024.GS6-2	https://www.doi.org/10.5954/ICAROB.2024.GS6-2	A Computational Approach for Global Trade Analysis Sensitive to Free Trade Agreement Circumstances: A Case Study Focusing on the Great Mekong Subregion
GS6-3	10.5954/ICAROB.2024.GS6-3	https://www.doi.org/10.5954/ICAROB.2024.GS6-3	Trigger circuit design and system integration for simultaneous measurement of human EEG, motion, and gaze
GS6-4	10.5954/ICAROB.2024.GS6-4	https://www.doi.org/10.5954/ICAROB.2024.GS6-4	Terminal Synergetic Controller for Car's Active Suspension System Using Dragonfly Algorithm
GS7-1	10.5954/ICAROB.2024.GS7-1	https://www.doi.org/10.5954/ICAROB.2024.GS7-1	Rehabilitating Flood-Damaged Cars for Sustainable Car Rental Services: A Web-Based System
GS7-2	10.5954/ICAROB.2024.GS7-2	https://www.doi.org/10.5954/ICAROB.2024.GS7-2	Optimizing E-Invoicing Rollout: Adaptive E-Invoicing Rollout (AER) Framework for Navigating Malaysia's Digital Transformation
GS7-3	10.5954/ICAROB.2024.GS7-3	https://www.doi.org/10.5954/ICAROB.2024.GS7-3	App Alert System for Smart Phones
GS7-4	10.5954/ICAROB.2024.GS7-4	https://www.doi.org/10.5954/ICAROB.2024.GS7-4	Developing a Prototype Hand Gesture Recognition System in Interpreting American Sign Language
GS7-5	10.5954/ICAROB.2024.GS7-5	https://www.doi.org/10.5954/ICAROB.2024.GS7-5	Minature Resource Planner
GS7-6	10.5954/ICAROB.2024.GS7-6	https://www.doi.org/10.5954/ICAROB.2024.GS7-6	Developing Cloud-based Sportswear Website