2016 2nd IEEE International Symposium on Robotics and Manufacturing Automation (ROMA 2016)

Ipoh, Malaysia
25-27 September 2016
Seq | Title/Page |
---|------------|
1  | Latency Analysis of WirelessHART Control Message with Variable Payload...1 |
2  | Pick and Place Mobile Robot for the Disabled through Voice Commands...6 |
3  | The development of Tele-operated Electro-Hydraulic Actuator (T-EHA) for Mini Excavator Teleoperation...10 |
4  | An Industry 4.0-based Repair Concept for Structural CFRP Components in the Automotive Sector...16 |
5  | Predictive PI Controller for Wireless Control System with Variable Network Delay and Disturbance...22 |
6  | Modelling of Twin Rotor MIMO System...28 |
7  | Design and Analysis of an RF Rectifying Circuit upon Integration with Monopole and Fractal Antennas...34 |
8  | Neural Network Architecture Selection for Efficient Prediction Model of Gas Metering...39 |
9  | Grasping Analysis for a 3-Finger Adaptive Robot Gripper...44 |
10 | Force Control for a 3-Finger Adaptive Robot Gripper by using PID Controller...50 |
11 | Mobile Robot Structure Design, Modeling And Simulation For Confined Space Application...56 |
12 | U-Model based Online Identification of Air Flow Plant...61 |
13 | Performance Analysis of a Drive System for Electrical Vehicle Application...66 |
14 | Harmonics Analysis in a DC-DC Converter Based Line Frequency Inverter for Domestic Lighting Loads...72 |
15 | Optimal PID Control of pH Neutralization Plant...78 |
16 | Implementation of IMU Sensor for Elbow Movement Measurement of Badminton Players...84 |
17 | Control of Autonomous Underwater Vehicle Based on Visual Feedback for Pipeline Inspection...90 |
18 | Development of Robotic Arm using Haptic Feedback...95 |
19 | Evolution of Railway Track Crack Detection System...102 |
20 | Obstacle Avoidance Using Wall-Following Strategy for Indoor Mobile Robots...108 |
21 | Facial Emotion Recognition Under Partial Occlusion Using Empirical Mode Decomposition...114 |
22 | Development of A 3D Virtual Platform for An Upper Arm Robotic Exoskeleton...120 |
23 | Potential Use of Social Assistive Robot Based Rehabilitation for Children with Cerebral Palsy...126 |
24 | Optimization Study on Suspended Plate's Material of Resonant Scanner Using Ansys...132 |
25 | Plantar Pressure Distribution And Gait Stability: Normal VS High Heel...138 |
26 | Forearm Pressure Distribution during Ambulation with Elbow Crutches...143 |
27 | Fast Approach for Automatic Data Retrieval using R Programming Language...149 |
28 | A Quantitative Study of Tuning ROS Gmapping Parameters and Their Effect on Performing Indoor 2D SLAM...153 |
29 | Development of Low-cost Real-time Data Acquisition System for Process Automation and Control...159 |
30 | Enhanced Vision Algorithm for Concurrent Assessment of Identification Marks for Glass Manufacturing ...164 |
31 | Global Mobile Robot Path Planning Using Laser Simulator...170 |
32 | Design of Automatic Phase-controlled Converter based on Temperature for Microwave Drying System...176 |
33 | Development and Evaluation of Multi-stage Phase- controlled Converter for Magnetron Driver...182 |
34 | HRI Observation with My Keepon Robot using Kansei Engineering Approach...188 |
35 | Robotics Rehabilitation for Assessment of Activities of Daily Living (ADL)...194 |
36 | Development of A Model for sEMG based Joint-Torque Estimation using Swarm Techniques...199 |
37 | Dynamic Analysis of Three Degree of Freedom (3-DOF) Exoskeleton for Lower Extremities...205 |
38 | Home-based Interactive Rehabilitation System for Hand...211 |
39 | Mobile Robot Path Planning Using Ant Colony Optimization...216 |
40 | A Particle Swarm Optimization-PID Controller of a DC Servomotor For Multi-Fingered Robot Hand...222 |
41 | Design and Control of An Upper Arm Exoskeleton using Fuzzy Logic Techniques...228 |
42 | Pattern Investigation for Landfill of Methane Gas Concentration Measurement...234 |
43 | Feature Extraction Using Radon Transform and DWT for Facial Emotion Recognition...238