

Balakrishnan Ramalingam

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | False Ceiling Deterioration Detection and Mapping Using a Deep Learning Framework and the Teleoperated Reconfigurable "Falcon"™ Robot. Sensors, 2022, 22, 262. | 2.1 | 4 |
| 2 | AI-Enabled Predictive Maintenance Framework for Autonomous Mobile Cleaning Robots. Sensors, 2022, 22, 13. | 2.1 | 10 |
| 3 | AI-Enabled Mosquito Surveillance and Population Mapping Using Dragonfly Robot. Sensors, 2022, 22, 4921. | 2.1 | 3 |
| 4 | Toward a Comprehensive Domestic Dirt Dataset Curation for Cleaning Auditing Applications. Sensors, 2022, 22, 5201. | 2.1 | 1 |
| 5 | Social Density Monitoring Toward Selective Cleaning by Human Support Robot With 3D Based Perception System. IEEE Access, 2021, 9, 41407-41416. | 2.6 | 10 |
| 6 | Locomotion with Pedestrian Aware from Perception Sensor by Pavement Sweeping Reconfigurable Robot. Sensors, 2021, 21, 1745. | 2.1 | 13 |
| 7 | Deep Learning Based Pavement Inspection Using Self-Reconfigurable Robot. Sensors, 2021, 21, 2595. | 2.1 | 23 |
| 8 | An Autonomous Robot-Aided Auditing Scheme for Floor Cleaning. Sensors, 2021, 21, 4332. | 2.1 | 14 |
| 9 | AI Enabled IoT Framework for Rodent Activity Monitoring in a False Ceiling Environment. Sensors, 2021, 21, 5326. | 2.1 | 7 |
| 10 | sTetro-Deep Learning Powered Staircase Cleaning and Maintenance Reconfigurable Robot. Sensors, 2021, 21, 6279. | 2.1 | 14 |
| 11 | Drain Structural Defect Detection and Mapping Using AI-Enabled Reconfigurable Robot Raptor and IoT Framework. Sensors, 2021, 21, 7287. | 2.1 | 3 |
| 12 | Simultaneous Motion-Slosh Control for a Self-Reconfigurable Mobile Robot. , 2021, , . | | 0 |
| 13 | Remote drain inspection framework using the convolutional neural network and re-configurable robot Raptor. Scientific Reports, 2021, 11, 22378. | 1.6 | 4 |
| 14 | A Reinforcement Learning Based Dirt-Exploration for Cleaning-Auditing Robot. Sensors, 2021, 21, 8331. | 2.1 | 5 |
| 15 | Remote Insects Trap Monitoring System Using Deep Learning Framework and IoT. Sensors, 2020, 20, 5280. | 2.1 | 46 |
| 16 | A Time Delay Estimation Based Adaptive Sliding Mode Strategy for Hybrid Impedance Control. IEEE Access, 2020, 8, 155352-155361. | 2.6 | 3 |
| 17 | Wall-Following Behavior for a Disinfection Robot Using Type 1 and Type 2 Fuzzy Logic Systems. Sensors, 2020, 20, 4445. | 2.1 | 22 |
| 18 | Table Cleaning Task by Human Support Robot Using Deep Learning Technique. Sensors, 2020, 20, 1698. | 2.1 | 43 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Vision Based Wall Following Framework: A Case Study With HSR Robot for Cleaning Application. Sensors, 2020, 20, 3298. | 2.1 | 16 |
| 20 | A Path Tracking Strategy for Car Like Robots with Sensor Unpredictability and Measurement Errors. Sensors, 2020, 20, 3077. | 2.1 | 6 |
| 21 | A Human Support Robot for the Cleaning and Maintenance of Door Handles Using a Deep-Learning Framework. Sensors, 2020, 20, 3543. | 2.1 | 59 |
| 22 | Complete coverage path planning using reinforcement learning for Tetromino based cleaning and maintenance robot. Automation in Construction, 2020, 112, 103078. | 4.8 | 99 |
| 23 | Visual Inspection of the Aircraft Surface Using a Teleoperated Reconfigurable Climbing Robot and Enhanced Deep Learning Technique. International Journal of Aerospace Engineering, 2019, 2019, 1-14. | 0.5 | 29 |
| 24 | Vision-Based Dirt Detection and Adaptive Tiling Scheme for Selective Area Coverage. Journal of Sensors, 2018, 2018, 1-13. | 0.6 | 10 |
| 25 | Cascaded Machine-Learning Technique for Debris Classification in Floor-Cleaning Robot Application. Applied Sciences (Switzerland), 2018, 8, 2649. | 1.3 | 38 |
| 26 | Chaos triggered image encryption - a reconfigurable security solution. Multimedia Tools and Applications, 2018, 77, 11669-11692. | 2.6 | 22 |
| 27 | Hybrid image crypto system for secure image communicationâ€™ A VLSI approach. Microprocessors and Microsystems, 2017, 50, 1-13. | 1.8 | 22 |
| 28 | Multiplexed stego path on reconfigurable hardware: A novel random approach. Computers and Electrical Engineering, 2016, 55, 153-163. | 3.0 | 7 |
| 29 | Stego on FPGA: An IWT Approach. Scientific World Journal, The, 2014, 2014, 1-9. | 0.8 | 15 |
| 30 | LCC-LSB-FPGA Stego-A Reconfigurable Security. Journal of Applied Sciences, 2014, 14, 2139-2148. | 0.1 | 16 |
| 31 | A singular perturbation based adaptive strategy for bounded controller design in feedback linearizable systems. International Journal of Adaptive Control and Signal Processing, 0, , . | 2.3 | 3 |