

Balakrishnan Ramalingam

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3948778/publications.pdf>

Version: 2024-02-01

31
papers

567
citations

687220

13
h-index

642610

23
g-index

31
all docs

31
docs citations

31
times ranked

386
citing authors

#	ARTICLE	IF	CITATIONS
1	Complete coverage path planning using reinforcement learning for Tetromino based cleaning and maintenance robot. Automation in Construction, 2020, 112, 103078.	4.8	99
2	A Human Support Robot for the Cleaning and Maintenance of Door Handles Using a Deep-Learning Framework. Sensors, 2020, 20, 3543.	2.1	59
3	Remote Insects Trap Monitoring System Using Deep Learning Framework and IoT. Sensors, 2020, 20, 5280.	2.1	46
4	Table Cleaning Task by Human Support Robot Using Deep Learning Technique. Sensors, 2020, 20, 1698.	2.1	43
5	Cascaded Machine-Learning Technique for Debris Classification in Floor-Cleaning Robot Application. Applied Sciences (Switzerland), 2018, 8, 2649.	1.3	38
6	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
7	Deep Learning Based Pavement Inspection Using Self-Reconfigurable Robot. Sensors, 2021, 21, 2595.	2.1	23
8	Hybrid image crypto system for secure image communicationâ€” A VLSI approach. Microprocessors and Microsystems, 2017, 50, 1-13.	1.8	22
9	Wall-Following Behavior for a Disinfection Robot Using Type 1 and Type 2 Fuzzy Logic Systems. Sensors, 2020, 20, 4445.	2.1	22
10	Chaos triggered image encryption - a reconfigurable security solution. Multimedia Tools and Applications, 2018, 77, 11669-11692.	2.6	22
11	Vision Based Wall Following Framework: A Case Study With HSR Robot for Cleaning Application. Sensors, 2020, 20, 3298.	2.1	16
12	LCC-LSB-FPGA Stego-A Reconfigurable Security. Journal of Applied Sciences, 2014, 14, 2139-2148.	0.1	16
13	Stego on FPGA: An IWT Approach. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	15
14	An Autonomous Robot-Aided Auditing Scheme for Floor Cleaning. Sensors, 2021, 21, 4332.	2.1	14
15	sTetro-Deep Learning Powered Staircase Cleaning and Maintenance Reconfigurable Robot. Sensors, 2021, 21, 6279.	2.1	14
16	Locomotion with Pedestrian Aware from Perception Sensor by Pavement Sweeping Reconfigurable Robot. Sensors, 2021, 21, 1745.	2.1	13
17	Vision-Based Dirt Detection and Adaptive Tiling Scheme for Selective Area Coverage. Journal of Sensors, 2018, 2018, 1-13.	0.6	10
18	Social Density Monitoring Toward Selective Cleaning by Human Support Robot With 3D Based Perception System. IEEE Access, 2021, 9, 41407-41416.	2.6	10

#	ARTICLE	IF	CITATIONS
19	AI-Enabled Predictive Maintenance Framework for Autonomous Mobile Cleaning Robots. Sensors, 2022, 22, 13.	2.1	10
20	Multiplexed stego path on reconfigurable hardware: A novel random approach. Computers and Electrical Engineering, 2016, 55, 153-163.	3.0	7
21	AI Enabled IoRT Framework for Rodent Activity Monitoring in a False Ceiling Environment. Sensors, 2021, 21, 5326.	2.1	7
22	A Path Tracking Strategy for Car Like Robots with Sensor Unpredictability and Measurement Errors. Sensors, 2020, 20, 3077.	2.1	6
23	A Reinforcement Learning Based Dirt-Exploration for Cleaning-Auditing Robot. Sensors, 2021, 21, 8331.	2.1	5
24	Remote drain inspection framework using the convolutional neural network and re-configurable robot Raptor. Scientific Reports, 2021, 11, 22378.	1.6	4
25	False Ceiling Deterioration Detection and Mapping Using a Deep Learning Framework and the Teleoperated Reconfigurable "Falcon"™ Robot. Sensors, 2022, 22, 262.	2.1	4
26	A Time Delay Estimation Based Adaptive Sliding Mode Strategy for Hybrid Impedance Control. IEEE Access, 2020, 8, 155352-155361.	2.6	3
27	Drain Structural Defect Detection and Mapping Using AI-Enabled Reconfigurable Robot Raptor and IoRT Framework. Sensors, 2021, 21, 7287.	2.1	3
28	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
29	AI-Enabled Mosquito Surveillance and Population Mapping Using Dragonfly Robot. Sensors, 2022, 22, 4921.	2.1	3
30	Toward a Comprehensive Domestic Dirt Dataset Curation for Cleaning Auditing Applications. Sensors, 2022, 22, 5201.	2.1	1
31	Simultaneous Motion-Slosh Control for a Self-Reconfigurable Mobile Robot. , 2021, , .		0