Guangming Song

List of Publications by Year
in descending order

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66 papers	805 citations	566801 15 h-index	580395 25 g-index
66 all docs	66 docs citations	66 times ranked	681 citing authors

#	Article	IF	Citations
1	A surveillance robot with hopping capabilities for home security. IEEE Transactions on Consumer Electronics, 2009, 55, 2034-2039.	3.0	94
2	A bio-inspired jumping robot: Modeling, simulation, design, and experimental results. Mechatronics, 2013, 23, 1123-1140.	2.0	67
3	An indoor security system with a jumping robot as the surveillance terminal. IEEE Transactions on Consumer Electronics, 2011, 57, 1774-1781.	3.0	59
4	Automatic docking system for recharging home surveillance robots. IEEE Transactions on Consumer Electronics, 2011, 57, 428-435.	3.0	47
5	A smart node architecture for adding mobility to wireless sensor networks. Sensors and Actuators A: Physical, 2008, 147, 216-221.	2.0	39
6	A Mobile Sensor Network System for Monitoring of Unfriendly Environments. Sensors, 2008, 8, 7259-7274.	2.1	37
7	A multi-interface gateway architecture for home automation networks. IEEE Transactions on Consumer Electronics, 2008, 54, 1110-1113.	3.0	36
8	In vivo skin penetration and metabolic path of quantum dots. Science China Life Sciences, 2013, 56, 181-188.	2.3	31
9	LineSpyX: A Power Line Inspection Robot Based on Digital Radiography. IEEE Robotics and Automation Letters, 2020, 5, 4759-4765.	3.3	28
10	Design of a Wireless Sensor Network Based Monitoring System for Home Automation. , 2011, , .		26
11	A Wheel-legged Robot with Active Waist Joint: Design, Analysis, and Experimental Results. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 83, 485-502.	2.0	24
12	Autonomous network repairing of a home security system using modular self-reconfigurable robots. IEEE Transactions on Consumer Electronics, 2013, 59, 562-570.	3.0	22
13	Design of a Vibrotactile Vest for Contour Perception. International Journal of Advanced Robotic Systems, 2012, 9, 166.	1.3	21
14	Design and Implementation of a Legâ€“Wheel Robot: Transleg. Journal of Mechanisms and Robotics, 2017, 9, .	1.5	20
15	Distributed measurement system based on networked smart sensors with standardized interfaces. Sensors and Actuators A: Physical, 2005, 120, 147-153.	2.0	18
16	A Modular Self-Reconfigurable Robot with Enhanced Locomotion Performances: Design, Modeling, Simulations, and Experiments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 81, 377-393.	2.0	17
17	Self-righting, steering and takeoff angle adjusting for a jumping robot. , 2012, , .		14
18	Design of transmote: A modular self-reconfigurable robot with versatile transformation capabilities. , 2012, , .		14

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19	Wheeled robot control based on gesture recognition using the Kinect sensor. , 2013, , .		13
20	The analysis of genetic diversity and differentiation of six Chinese cattle populations using microsatellite markers. Journal of Genetics and Genomics, 2008, 35, 25-32.	1.7	12
21	Transleg: A wire-driven leg-wheel robot with a compliant spine. , 2016, , .		12
22	Design and Implementation of a Modular Self-Reconfigurable Robot. International Journal of Advanced Robotic Systems, 2014, 11, 47.	1.3	11
23	A Wireless Sensor Network System with a Jumping Node for Unfriendly Environments. International Journal of Distributed Sensor Networks, 2012, 8, 568240.	1.3	11
24	Structural-Parameter-Based Jumping-Height-and-Distance Adjustment and Obstacle Sensing of a Bio-Inspired Jumping Robot. International Journal of Advanced Robotic Systems, 2015, 12, 66.	1.3	10
25	An Indoor Navigation Service Robot System Based on Vibration Tactile Feedback. International Journal of Social Robotics, 2017, 9, 331-341.	3.1	10
26	Bilateral teleoperation of an unmanned aerial vehicle for forest fire detection. , 2017, , .		9
27	Automatic Battery Swap System for Home Robots. International Journal of Advanced Robotic Systems, 2012, 9, 255.	1.3	8
28	A novel one-motor driven robot that jumps and walks. , 2013, , .		8
29	Racemote: A Mobile Node for Wireless Sensor Networks. , 2006, , .		6
30	Localization for hybrid sensor networks in unknown environments using received signal strength indicator. , 2008, , .		6
31	Design and Implementation of a Remote Control System for a Bio-Inspired Jumping Robot. International Journal of Advanced Robotic Systems, 2012, 9, 117.	1.3	6
32	An adaptive localisation algorithm of mobile node in wireless sensor network. International Journal of Sensor Networks, 2013, 14, 42.	0.2	6
33	Self-Deployment of Mobile Sensor Networks in Complex Indoor Environments. , 2006, , .		4
34	Design and implementation of ZigBee based gateway for environmental monitoring system. , 2008, , .		4
35	A reconfigurable mobile node for wireless sensor networks in unfriendly environments. , 2010, , .		4
36	Hand Motion-Based Remote Control Interface with Vibrotactile Feedback for Home Robots. International Journal of Advanced Robotic Systems, 2013, 10, 270.	1.3	4

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37	Head stabilization control for snake-like robots during lateral undulating locomotion. , 2014, , .		4
38	Consensus and obstacle avoidance for multi-robot systems with fixed and switching topologies. , 2014, , .		4
39	Sensors for Robotics 2015. Journal of Sensors, 2015, 2015, 1-2.	0.6	4
40	Bilateral teleoperation of a group of mobile robots for cooperative tasks. Intelligent Service Robotics, 2016, 9, 311-321.	1.6	4
41	Wireless sensor and actuator network system for calling home robots. , 2010, , .		3
42	Design of a tumbling robot that jumps and tumbles for rough terrain. , 2013, , .		3
43	Energy-Optimized Consensus Formation Control for the Time-Delayed Bilateral Teleoperation System of UAVs. International Journal of Aerospace Engineering, 2018, 2018, 1-22.	0.5	3
44	An Effective Algorithm for Guiding Mobile Nodes in Wireless Sensor Networks. Signal Processing Systems Design and Implementation (siPS), IEEE Workshop on, 2007, , .	0.0	2
45	A reconfigurable mobile sensor network system for rough terrain. , 2010, , .		2
46	Experimental Analysis on the Effectiveness of Kinematic Error Compensation Methods for Serial Industrial Robots. Mathematical Problems in Engineering, 2021, 2021, 1-9.	0.6	2
47	Lifetime Optimization of an Indoor Surveillance Sensor Network Using Adaptive Energy-Efficient Transmission. International Journal of Distributed Sensor Networks, 2015, 11, 739014.	1.3	2
48	A novel distributed architecture for building Web-enabled remote robotic laboratories. , 2005, , .		1
49	A ZigBee Based Mesh Network for Home Control System. , 2008, , .		1
50	Design of a self-reconfigurable wireless network system for modular self-reconfigurable robots. , 2012, , .		1
51	Design and implementation of a new intelligent modular reconfigurable robot. , 2013, , .		1
52	Strategy research of role assignment and formation control for multi-robot systems. , 2013, , .		1
53	Prototype design and performance test of an in-phase flapping wing robot. , 2013, , .		1
54	Ambient light intensity based topology switching control for multi-robot system. , 2013, , .		1

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55	Sensors for Robotics. Journal of Sensors, 2013, 2013, 1-2.	0.6	1
56	A self-recovery mechanism for quadrotors. , 2014, , .		1
57	Aerial posture adjustment of a bio-inspired jumping robot for safe landing: Modeling and simulation. , 2014, , .		1
58	Monocular vision-based bilateral teleoperation of quadrotors for formation flight. , 2016, , .		1
59	Step-climbing maneuver for transleg in the wheeled mode. , 2017, , .		1
60	Smooth Formation Switching of the Multiple Robots in Bilateral Teleoperation Systems. , 2018, , .		1
61	Design and Implementation of an Inspection Robot for Non-Destructive Testing of Aluminum Conductor Composite Core Wires. , 2020, , .		1
62	Role-based configuration representation for modular reconfigurable robots. , 2013, , .		0
63	Modeling and simulation of a bio-inspired symmetrical jumping robot. , 2014, , .		0
64	Bilateral teleoperation of multiple UAVs with low-energy coordinated formation control. , 2017, , .		0
65	A Bio-inspired Jumping Robot for Mobile Sensor Networks over Rough Terrain. Lecture Notes in Electrical Engineering, 2012, , 57-62.	0.3	0
66	Design and Implementation of a Tumbling Robot with Jumping Capability. Jiqiren/Robot, 2013, 35, 672.	0.4	0